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AUTHOR Finkelstein, Martin

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ABSTRACT

The impact of the Katz/Henry Faculty Development Model on teaching behaviors and student learning outcomes was assessed with 24 faculty members at 4 institutions in New Jersey. This model, known as "Partners in Learning" involved: faculty pairs who observe one another's class, partner meetings to discuss shared experience in the classroom, several interviews with at least three students, and meetings with other faculty participants on campus to discuss experiences. Data on learning outcomes, teaching behaviors, and collegial interactions were collected for three years at four diverse institutions in New Jersey. Students completed pre- and post-tests which examined their preference for class structure and teaching style, their interactions with faculty, student changes resulting from the course, and academic skill development. Faculty were evaluated at least three times per semester to document clarity, enthusiasm, interaction, organization, pacing, disclosure, and rapport. Syllabi were examined, and faculty attitudes about their classroom experiences were surveyed. While no discernible increase in student academic achievement was found, the data indicate enhanced faculty understanding of student learning, improved relationships with colleagues, and increased changes in classroom teaching. Appendices include: student preand post-tests, classroom observation protocols, a syllabus checklist, and a faculty survey. (SW)

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New Jersey Institute for Collegiate Teaching and Learning Alfieri Hall Seton Hall University South Orange, New Jersey 07079

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Project Director:

Martin Finkelstein
Director
New Jersey Institute for Collegiate Teaching and Learning
Alfieri Hall
Seton Hall University
South Orange, New Jersey 07079
(201) 761-9704

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Project Title: Assessing the Teaching and Student Learning Outcomes of the Katz/Henry Faculty Development Model

Grantee Organization and Address:

New Jersey Institute for Collegiate Teaching and Learning Seton Hall University, South Orange, New Jersey 07079

Project Director:

Martin Finkelstein, Director New Jersey Institute for Collegiate Teaching and Learning Seton Hall University, South Orange, New Jersey 07079 (201) 761-9704

Executive Summary

Project Overview

The New Jersey Institute for Collegiate Teaching and Learning (NJICTL) assessed the impact of the Katz/Henry Faculty Development Model (known as "Partners in Learning" or PIL) on the teaching behaviors and student learning outcomes of 24 faculty members at four diverse institutions in New Jersey. Data on short term and long term learning outcomes, teaching behaviors, and collegial interactions were collected from a variety of sources over a three year period. The data showed that participation in PIL enhanced faculty's understanding of student learning, enhanced their relationships with colleagues, and caused them to make changes in their classroom teaching. Despite these critical self-reported changes, there were no discernible patterns of increased student academic achievement in the focal courses.

Purpose

This project afforded an opportunity to assess teaching behaviors from the students perspective, the individual faculty's perspective, and the collective faculty's perspective. It documented the ways in which faculty development efforts can alter classroom performance, and in some cases, permanently change the way faculty go about teaching their courses. It also provided a framework within which to assess the utility of a research study for documenting the links between faculty development and student learning.

Background and Origins

The model for the Partners in Learning (PIL) Program evolved during a decadelong collaboration between the late Joseph Katz and Mildred Henry. They developed a teaching enhancement program that focuses on student learning while engaging faculty in dialogue about the college classroom. Their work has been widely disseminated in the volume *Turning Professors Into Teachers*.

The structure of PIL is a simple one: faculty pair themselves off and periodically sit in on the other's class over the course of a semester or quarter. During the following term, the two switch roles with the observed now doing the observing. The partners meet



frequently to discuss their shared experience in the classroom. The partners also interview students several times over the course of the term, then meet with other faculty participants on campus to discuss their experiences

The outcomes of participation in PIL are often secondary to the process itself: it brings attention to the process of student learning, to what students are thinking, and to the experiences faculty share. The process rejuvenates instructors, channels the stresses that arise from teaching, and mitigates the sense of being isolated in the classroom. Through the partnerships, two professors get to share a class and examine together the dynamics of student learning in that class.

Project Description

Beginning in Academic Year 1992-93, twenty-four faculty at four diverse institutions began participation in the project. They were a diverse group: veteran teachers who had a strong background in faculty development and teaching enhancement initiatives; experienced teachers who had only recently become aware of faculty development; those new to college teaching; and others somewhat disinterested in teaching enhancement but willing to participate for released time or a stipend.

The faculty were coupled in interdisciplinary pairs. The faculty member who was teaching the course was the "observed," and the partner was the "observer." The partners alternated roles by semester, and each faculty pair participated in this routine for two of the three years. Each member of the pair interviewed at least three students three or four times during the semester, and kept journal entries to record their impressions.

The faculty's students were surveyed via a pre-test and post-test, examining students' preference for class structure and teaching style; interactions with faculty; experiences in the course (principally evaluating the teacher's behavior); intellectual, social, or personal change resulting from the course; teaching behaviors and their impact on learning; and progress made in enhancing academic skills in the course. There was an academic achievement question with each post-test, designed to reflect students' mastery of the subject matter. The students grade point average and scores on the New Jersey Basic Skills Placement Test were collected as well to control for student level.

The faculty were also observed by NJICTL staff at least three times per semester to document clarity, enthusiasm, interaction, organization, pacing, disclosure, and rapport. Syllabi from each faculty's focal course were collected and content analyzed. Meetings were held at NJICTL as a forum for participants to discuss their experiences with the project and to explore innovative classroom strategies. At the end of Years 1 and 3, faculty completed an attitudinal survey about their classroom experiences and feelings about PIL. And at the end of the project, each faculty was interviewed by NJICTL staff.

Evaluation/Project Results

The faculty surveys show that, over the three years, all or most faculty report that they increased the diversity of their teaching strategies, and their willingness to explore new ways of teaching; increased their appreciation for faculty influence over students, and their role in motivating students; and made actual changes in their teaching methods, most particularly the use of active learning strategies.

The student surveys did not entirely support the faculty's self-reports of change.



The students acknowledged that there were changes in their faculty's teaching strategies, including an increase in the number and quality of interactions with students; and an increase in their expectations of students' academic performance. However, they report no significant change in the faculty's in-class teaching behaviors. Similarly, the students report little personal change as a result of their participation in the course, and there were no discernible patterns of increased academic achievement (even when controlling for ability).

We asked the faculty about specific changes they had made that were directly attributable to the partnering experience. Their responses show that PIL affected their professional lives in these ways: 13 of 18 faculty report a positive change in their understanding of student learning; 12 of 18 faculty report a positive change in their relationships with colleagues; and 11 of 18 faculty report a positive change in their teaching.

Summary and Conclusions

The lessons we learned from this project fall into four general categories: the motivation of faculty subjects; monitoring the treatment and data collection; the data -- nature, quantity, and sources; and the outcomes assessed.

A challenge posed to the assessment effort here was how to maintain faculty motivation both for participation in the "treatment" and for applying uniform effort in the furnishing of data over three and one half years. Despite the number of handouts and group meetings, faculty maintained diverse ideas about the various treatments -- their purposes and priorities -- as well as about their data provision obligations. While the number of faculty subjects was small, the amount of data collected from each was massive, and the task of analyzing the disparate data sources in a meaningful way was extremely difficult. There is also the matter of getting data from the students of faculty subjects, especially academic achievement data. Not only are the students not particularly motivated to provide such data, but the faculty themselves have major issues on this score..

When all is said and done, questions remain about the appropriateness of the outcomes selected for assessment. In part, the issue is one of the "contextualization" of outcomes, i.e., each faculty member comes to this (or any other) faculty development experience with their own agendas and the effects are often subtle and rather different depending on the individual. When one seeks a few general effects, we fear that you lose some of the unanticipated and individualized impacts that are part of the "real" treatment effects. This suggests that a good deal more attention needs to be focused on the expectations and goals of individual faculty members; and that the assessment effort may need to assess the program treatment relative to these individual goals and expectations.

Appendices

Appendix A	Student Pre-test	Appendix E	Syllabi Analysis
Appendix B	Student Post-test, Year 1	Appendix F	Faculty Survey
Appendix C	Student Post-tests, Years 2/3	Appendix G	Exit Interview
Appendix D	Classroom Observation Protocol		



Summary

The New Jersey Institute for Collegiate Teaching and Learning (NJICTL) assessed the impact of the Katz/Henry Faculty Development Model (known as "Partners in Learning" or PIL) on the teaching behaviors and student learning outcomes of 24 faculty members at four diverse institutions in New Jersey. Data on short term and long term learning outcomes, teaching behaviors, and collegial interactions were collected from a variety of sources over a three year period. The data showed that participation in PIL enhanced faculty's understanding of student learning, enhanced their relationships with colleagues, and caused them to make changes in their classroom teaching.

Martin Finkelstein
Director
New Jersey Institute for Collegiate Teaching and Learning
Seton Hall University
South Orange, New Jersey 07079
(201) 761-9704



PROJECT OVERVIEW

The New Jersey Institute for Collegiate Teaching and Learning (NJICTL) assessed the impact of the Katz/Henry Faculty Development Model on the teaching behaviors and student learning outcomes of 24 faculty members at four diverse institutions in New Jersey. The model, known as Partners in Learning (PIL), has been adopted for use throughout New Jersey and in at least five other states. This project sought to empirically test the impact of PIL on faculty and, most importantly, on student learning.

Data on short term and long term learning outcomes, teaching behaviors, and collegial interactions were collected from a variety of sources over a three year period. The data showed that participation in PIL enhanced faculty's understanding of student learning, enhanced their relationships with colleagues, and caused them to make some changes in their classroom teaching. Despite these critical self-reported changes, there was no discernible pattern of increased student academic achievement in the focal courses of the 24 faculty.

PURPOSE

As the imperatives for faculty development programming have increased dramatically amid severe resource constraints, important questions have surfaced: Does participation in these programs have a positive and sustained impact on faculty teaching and ultimately on student achievement? Is there a link between faculty development and student learning?

Thus far, there have been few attempts to document program outcomes in terms of improvement in teaching or increases in student learning. Evaluations of faculty



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development programs based on the Katz/Henry model (Rice and Cheldelin, 1989, 1990; Cheldelin, 1991) indicate that faculty members report significant improvements in their teaching effectiveness; evaluators were, however, unable to verify these self-reports.

This project afforded an opportunity to assess teaching behaviors from the students perspective, the individual faculty's perspective, and the collective faculty's perspective. It documented the ways in which faculty development efforts can alter classroom performance, and in some cases, permanently change the way faculty go about teaching their courses. It also provided a framework within which to assess the utility of a research study for documenting the links between faculty development, teaching and student learning.

The most challenging aspect of the analysis was determining the best method of scrutinizing the myriad data elements in a way that most clearly answered the research questions while isolating the effects of the program. This task was complicated by a sometimes intractable subject pool: 24 faculty on four diverse campuses over a three-year period. At times, the logistical challenges seemed to overwhelm the quasi-experimental controls.

Despite rigorous attempts to maintain a consistent design across the three years, several factors beyond our control intruded. Several faculty were awarded a semester sabbatical during the project, thus interfering with the alternating pattern of classroom observation; one faculty became the director of his institution's Teaching Excellence Center, significantly altering his teaching assignment; one faculty member was forced to withdraw near the end of the project because of issues involving litigation between the faculty's bargaining unit and the institution; and illness forced two faculty out of the



project for a semester, and caused another to drop out completely (after only one semester, and he was replaced by someone who never fully engaged in the project). And perhaps the most pertinent and unexpected change centered on the dynamics of the partnerships themselves: personality conflicts, scheduling difficulties, and other logistical problems caused several of the faculty to "change partners" after only one year of active participation.

While these deviations from the original design complicated the data analysis, they reflected the realistic changes in people's lives over three years. Although frustrating, they added another "human" dimension to this study.

There were also issues regarding the amount of instruction given the faculty participants. The Katz/Henry model stresses the importance of minimal intervention by the project coordinator; the faculty partners set their own agenda and agree to their own rules for observations, interviews, and the sharing of feedback. While this "hands off" strategy supports the nonevaluative norm of the project, it makes even quasi-experimental control of the "treatment" difficult to achieve.

BACKGROUND AND ORIGINS

Partners in Learning: The Katz/Henry Model. The model for the Partners in Learning (PIL) Program evolved during a generation-long collaboration between the late Joseph Katz and Mildred Henry. Based on their work with faculty on 12 campuses initially supported by one of FIPSE's first grants, Katz developed a teaching enhancement program for New Jersey that focuses on student learning while engaging faculty in dialogue about the college classroom. The model has been widely disseminated in the



volume Turning Professors Into Teachers.

The structure of PIL is a simple one: faculty pair themselves off, preferably with someone from a different discipline, and periodically sit in on the other's class over the course of a semester or quarter. During the following term, the two switch roles with the observed now doing the observing. The partners meet frequently to discuss their shared experience in the classroom. Observations are emphatically nonjudgmental and are shared only with each other.

At the start of the semester, each of the partners selects three students and interviews them several times over the course of the term. The interviews may follow any pattern, but loosely focus on the question: "how do students learn?"

Once a month, all faculty participants on a campus gather to discuss their experiences. And at the end of the semester, each faculty member writes an essay about the experience. That essay is shared with participants in preparation for later discussion.

The outcomes of participating in PIL are often secondary to the process itself: it brings attention to the process of student learning, to what students are thinking, and to the experiences faculty share. The process rejuvenates instructors, channels the stresses that arise from teaching, and mitigates the sense of being isolated in the classroom. Through the partnerships, two professors get to share a class and examine together the dynamics of that class.

The Katz/Henry model has been unique among faculty development/teaching enhancement programs in that

- it focuses primarily on student learning;
- it is based firmly in the classroom, focusing on the interactions between teacher



- and student, and among students themselves;
- it is concerned with the ongoing process of teaching and learning rather than specific goals or outcomes; and
- it is a grassroots, faculty-run operation encouraging innovation and exploration.

In the Fall of 1987, Katz was invited to establish a statewide faculty development program to disseminate PIL among the public and private institutions in New Jersey. Initially supported by the New Jersey Department of Higher Education and administered by the Woodrow Wilson National Fellowship Foundation, the program is now part of the New Jersey Institute for Collegiate Teaching and Learning (NJICTL). Over nearly a decade, PIL programs have operated on 27 campuses in New Jersey alone involving over 500 faculty.

PROJECT DESCRIPTIONS

The Faculty Sample. Beginning in Academic Year 1992-93, twenty-four faculty at four diverse institutions began participation in the project. Faculty from Rutgers

University at Newark (Carnegie Research University I), Bergen Community College, and County College of Morris began in the Fall 1992 semester; faculty from Kean College (a public comprehensive) began one semester later, in Spring 1993.

Table 1 gives a brief description of the faculty, including demographic and professional information. Sixteen of the faculty hold doctorates, 6 hold Master's degrees. Ten faculty are full professors, nine are associate professors, and three are assistant professors. All but one faculty have received tenure. Their teaching experience averages 19 years, ranging from six to 40 years.



In many ways, the participating faculty were a diverse group: there were veteran teachers who had a strong background in faculty development and teaching enhancement initiatives (faculty 11, 21, 23, 26, and 36); others were experienced teachers who had only recently become aware of, and expressed interest in, faculty development (faculty 12, 13, 31, 32, 42, 43); others were relatively new to college teaching and were grappling with teaching issues (16, 24, 25, 46); and others seemed to be somewhat disinterested in teaching enhancement but willing to participate in the project for the stipend or release time it provided (14, 15, 33, 34, 35, 41, 44).

To give us an understanding at the beginning of the project of who the faculty were, we asked two very basic questions: "How did you come to be involved in PIL? What do you expect to gain from this experience?" The veteran faculty developers suggested this was a natural extension of their involvement in teaching initiatives, a way for them to polish their teaching styles using feedback from colleagues at other campuses. Others were intrigued with the notion of trying something new, particularly networking with other teachers and having collegial discussion on classroom issues. There were those who wanted this to be a reality check, to see if their impressions of their teaching were validated by other faculty and students. And several faculty report they were persuaded to participate by their campus faculty development coordinator. Despite this diversity, there seemed to be a relatively high level of enthusiasm, particularly with the prospect of the partnering experience and the opportunity to be involved in a federally-funded research project.

<u>Procedures</u>. There were three components of the PIL model that were incorporated into the work of every faculty pair: (1) ongoing classroom observations; (2)



faculty interviews with students; and (3) collegial dissuasions about teaching based on observations and interviews. Data pertaining to these three components were collected from a variety of sources over the three years of study and were combined to form a large database of quantitative and qualitative information. Quantitative data were entered into an SPSS+ datafile for manipulation.

On each of the four campuses, six faculty were engaged in the project (or, three faculty pairs). The faculty were coupled in interdisciplinary dyads, typically a social scientist and a natural scientist. Deviating slightly from the PIL model, the partnerships were "assigned" rather than self-selected in order to adhere to the research design.

For each of the three academic years, each faculty participant taught a "focal"course, here defined as an introductory-level course that was part of their regular teaching routine. The faculty member who was teaching the focal course was the "observed," and the partner was the "observer." The partners alternated roles by semester, and each faculty pair participated in this routine for two of the three years. These two years were termed "active" years. The third year was termed "fallow," as participation in PIL was not required although data continued to be collected in the focal course.

The twenty-four faculty began the project in two stages -- following the quasi-experimental research design. Two of the three pairs on each campus were active in years 1 and 2, then fallow in year 3. The remaining pair (the control) was fallow in year 1, then active in years 2 and 3. Data were collected on the fallow pairs in year 1 to establish a baseline control (i.e., "pre-intervention"); data were collected on those fallow in year 3 to determine the persistence of change after active participation ceased. Thus, in Year 1, 16



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faculty were active, 8 were fallow; in Year 2, all 24 faculty were active; and in Year 3, 8 faculty were active, 16 were fallow. See Table 2 for an illustration of the design of the partnering.

Each member of the pair interviewed at least three students from the focal class three or four times during the semester. Holding true to the Katz/Henry model, the interviews were directed by the faculty member -- there was little intervention on behalf of the research design to control the questions that were asked or the issues discussed. The purpose of the interviews was to provide feedback to the focal faculty about the students' learning experience in the course, supplementing the data gathered on the student post-test survey. After the interviews, the partners met to discuss the feedback from students, the course, and possible teaching strategies.

To record their impressions of the student interviews and meetings with their partner, faculty were asked to make regular entries into a journal. The journals would serve as a running account of their participation in the project, and give the faculty the opportunity to reflect periodically on their experiences. There were two journal entries that were directed by NJICTL, at the beginning and end of the project.

In each faculty participant's active years, the students in the focal course were surveyed via a pre-test and post-test. The pre-test (Appendix A) was administered early in the semester along with a consent form; the post-test (Appendices B and C) was administered during the last week or two of classes, and included an academic achievement question as designed by the focal faculty. Both surveys began with questions seeking demographic data that could be used to allow the introduction of statistical controls into the analysis.



The post-test examined students' preference for class structure and teaching style; interactions with faculty; experiences in the course (principally evaluating the teacher's behavior); intellectual, social, or personal change resulting from the course; teaching behaviors and their impact on learning, and progress made in enhancing academic skills in the course.

The academic achievement questions pertained to specific material covered in the course. They were designed to reflect students' mastery of the subject matter, and were used to compare student group achievement in years 1 and 3, controlling for student ability. Three questions were provided; students chose two to answer.

When the post-tests were collected, the academic achievement question was separated from the survey and returned to the faculty for "anonymous" grading. The faculty used a nine-point scale to assign grades: A+, A, A-; B+, B, B-; and C+, C, and C-. Once the grades were returned, they were incorporated with the post-tests into the student database.

For each student participant, data were collected unobtrusively from each institution's Registrar. To enable some baseline experimental controls, students' grade point average for the semester prior to participation and scores on the New Jersey Basic Skills Placement Test were collected. (The state of New Jersey required through 1994 that each public high school student complete a Basic Skills Placement Test prior to entering college; the scales included in this study were English Comprehension, Algebra, Math Computation, and Total Score).

Each faculty participant was also observed by NJICTL staff at least three times per semester teaching their focal course and the observations were recorded according to a



protocol based on Murray's Teaching Behaviors Inventory [TBI] included in Appendix D. Classroom behaviors were recorded according to clarity, enthusiasm, interaction, organization, pacing, disclosure, and rapport. At the end of the project, the protocol was shared with the faculty to get their impressions and feedback.

Syllabi from each faculty's focal course were collected and content analyzed employing the protocol in Appendix E. This data element was particularly difficult to analyze, given that most of the faculty at community colleges use a departmental syllabus that is only a rough outline of topics and readings that follow the text for the course.

During each of the six semesters of the project, monthly meetings were held at NJICTL as a forum for participants to discuss their experiences with the project and to explore innovative classroom strategies. For the first semester, all 24 faculty met as a group. However, in subsequent semesters, difficulties in scheduling required that the large group be broken down into two smaller groups, meeting on successive days. Whereas this undermined the cohesiveness of the group, it aided in assuring that the faculty could attend at least one of the meeting days.

The meetings typically included two components: an informal opportunity to raise questions or report on project-related experiences in the larger group; and a more structured discussion of a reading or case study, usually provided by the NJICTL staff leader (but occasionally by the participants themselves in Year 2). Many of the readings and cases focused in one way or another on active learning strategies in the classroom.

At the end of Years 1 and 3, faculty were asked to complete an attitudinal survey (see Appendix F). The survey includes many items that in content parallel items on the students' post-tests, including an evaluation of the academic skills required for the course;



preferred class structure and teaching style; teaching activities descriptive of the course and important for student motivation; faculty influence on student achievement and motivation; teaching behaviors that affect student learning; and adaptations and changes in the course for subsequent semesters.

After an initial analysis of the data, it became clear that an exit interview with each faculty participant was needed as a frame for interpreting the findings as well as an opportunity for participants to achieve closure on their project participation. The protocol used is found in Appendix G.

EVALUATION: PROJECT RESULTS

In assessing the impact of the PIL model, there seemed to be two questions at the heart of the partnering experience: (1) to what extent, and in what ways, do faculty grow as teachers? and (2) to what extent, and in what ways, do students grow as learners? And further, does this growth (or "change") persist even after participation in PIL ceases? These questions guided the data analysis.

General Trends. Based on the success of the PIL program in institutions throughout New Jersey and overwhelming positive anecdotal information, we had hypothesized that there would be significant changes in the faculty's teaching methods, their perceptions of and attitudes toward students, and their personal and professional relationships with colleagues. The data provide partial support for these hypotheses.

The faculty surveys show that, over the three years, all or most faculty report that they

increased the diversity of their teaching behaviors and strategies, and their



- willingness to explore new ways of teaching [Table 3];
- increased their appreciation for faculty influence over students, and their role in motivating students [Table 4]; and
- made actual changes in their teaching methods, most particularly the use of active learning strategies [Table 3].

The student surveys did not entirely support the faculty's self-reports of change.

The students acknowledged that there were changes in the faculty's classroom behavior regarding

- an increase in the number and quality of interactions with students [Table 5]; and
- an increase in their expectations of students' academic performance [Table 4].

However, the students report little personal change as a result of their participation in the course [Table 6], and there were no discernible patterns of increased academic achievement, even when controlling for ability [Table 7].

The last item on the faculty survey was an open-ended question about specific course changes the faculty had made that were directly attributable to the partnering experience. Their responses show that PIL impacted their teaching as follows:

- 13 of 18 faculty report a positive change in their understanding of student learning;
- 12 of 18 faculty report a positive change in their relationships with colleagues; and
- 11 of 18 faculty report a positive change in their teaching.

We investigated further to see if we could detect any distinguishable patterns among faculty based on some demographic, personality or other characteristic. No single such pattern clearly emerged from the data. Reflecting back on the Katz/Henry model, we were able to identify two factors that appeared to distinguish impressionistically among



faculty: perceived degree of change in teaching/classroom behavior and amount of personal reflection about the change process. Using these two factors, we attempted to determine how (and if) our faculty could be categorized into "types" based on our knowledge of them and the data we collected that reflected the patterns of change we observed.

Using our informal interactions with faculty, their journals, and the exit interviews, we plotted each faculty participant on a 2x2 change/reflection grid (see Table 8). Three clusters emerged; (1) those at the low end of the change and reflection scale, who we labeled "resisters"; (2) those in the middle of the grid, comprising the largest number of faculty, labeled "moderate changers"; and (3) those on the upper end of the scales, labeled "converts." As expected, there were anomalies who did not fit precisely into either category, but these clusters seemed to be a meaningful way to look at the faculty participants.

We then used the students' and faculty self-reports to test our change/reflection designations. We found that our typology was not on the whole supported. Most of the changes that occurred across the three years of the project seem to follow no real pattern. Distinguishing between faculty types based on the students' responses or the faculty self-reports was, with few exceptions, impossible. However, it is informative to look at two groups of faculty that distinguished themselves from the rest: those at the high end of the change/reflection continuum, and those at the opposite end.

There were four faculty (36, 13, 31, and 46) who appeared to exhibit the greatest professional growth -- the greatest changes -- over the three year period. They distinguished themselves from the rest of the faculty in their willingness to reflect on their



own teaching, to consider their students' learning styles, and consequently, to make changes in their teaching strategies. They moved clearly from "teacher-oriented" to "learner-oriented" and the prospects for continued reflective change appear very high.

Of these converts, faculty 36 was the "big winner" for the project. Consistently, he reported the greatest changes in his classroom, and the students reinforced that notion. He was one of the most dedicated participants in the project, was very reflective about his teaching, and most concerned about the quality of his students' learning experience. He is actively involved in both teaching and research, and has taken part in other faculty development initiatives before (and since) PIL at his research university.

At the other end of the change/reflection continuum were faculty that we would describe as resistant, exhibiting very little change from their year 1 starting point. These faculty (15, 34, 41, 44) were, in most ways, out of sync with the rest of the faculty participants. They viewed the issues raised in the project as not pertinent to their classrooms and to their style of teaching. At times antagonistic, but principally distant and removed, these faculty did not avail themselves of the interaction and dialogue that characterized other partnerships.

Faculty 15 exemplifies the "resisters". He was a "negative" presence in the project -- with his partners and with his colleagues at NJICTL meetings. The students rated him low on most scales, and there were almost no positive changes on any variables over the three years. He writes in his journal that he lost interest in the project after year 1, and considering that he was fallow that year, all the momentum he had for his partnerships was lost.

There were two faculty that fall into the "anomaly" category. Faculty 25 seemed,



based on our interactions and observations, to be a moderate changer who was cautiously open to new ideas. She had a stable three-year partnership that was very valuable to her development as a teacher. But her student ratings showed a negative trend across the three years on almost every item. Whereas we anticipated that there would be instances of resistance and conversion, and further that there would be evidence of "disruption" (a dip in student satisfaction as old ways gave way to the new) over the three year period, we were confounded by the consistent indicators of declining student satisfaction.

We initially labeled Faculty 41 as resistant because of the way in which he stayed at the outer fringes of the project. He was cynical about teaching and the impact he had on students. He had difficulty with his partners to the extent that they canceled observations and meetings, and the exchange of feedback was minimal to nonexistent. To our surprise were his student scores; consistently, he scored positive changes over the three years. Looking at the student scores alone, he should be considered one of the biggest converts in the project. However, looking simultaneously at both the quantitative and qualitative data for him provides us with two very different stories.

Several of the faculty experienced an appreciable positive change from year 1 to year 2, then a considerable decline from year 2 to year 3. This trend is particularly evident in Faculty 46. Perhaps this can be attributed to the three year study period; there were reports that sustaining interest over six semesters was a difficult task, and enthusiasm waned as the project progressed.

The largest group of faculty were those we characterized as "moderate changers."

These were faculty who, based on personal and professional characteristics, were most representative of the "typical" faculty -- those falling in the middle of the bell curve. This



group was the most difficult to plot with any precision on the change/reflection grid because there were such subtle differences among them.

SUMMARY AND CONCLUSION

The portrait that emerges from our analysis is one of muddied, but perceptibly positive, impact -- largely along the lines that are predictable from the Katz/Henry model. Faculty participants, on the whole, became more learner-centered (understood their students better and got them more involved in the learning process), more collegial in their teaching work, although neither of these developments appeared to directly translate into measurable student achievement gains. We cannot help but speculate about what magnitude of effects might have been discernible had we been able to select a random or at least broadly representative group of faculty for "treatment" as well as a matched control group. Our participants were, after all, largely a self-selected group of faculty who started out with an interest in, and a willingness to invest energy in, their teaching. Many were already well along in their growth trajectory and so were, in many respects, likely to show relatively less dramatic growth and development. We had, in a sense, by our design, stacked the deck against identifying any substantial program impact.

Understanding these limitations as given, we have in the course of this three and one half year assessment effort, nonetheless learned a good bit about the other limitations as well as the strengths of the various elements of our "eclectic" evaluation approach.

Reflecting on these, we can identify a series of lessons that FIPSE would do well to share with other project directors. The lessons fall into four general categories: the motivation of faculty subjects; monitoring the treatment and data collection; the data -- nature,



quantity, and sources; and the outcomes which we address in turn below.

Faculty Motivation. The faculty participants in this project began as a highly motivated group. They were after all volunteers engaging in a new, and much heralded, program with the blessings of their campus' chief academic officer. The challenge posed to the assessment effort here was how to maintain faculty motivation both for participation in the "treatment" (the PIL regimen of the classroom observation, student interviewing and colleague debriefing) and for applying uniform effort in the furnishing of data over three and one half years. In part, the difficulty was posed by the experimental design itself, requiring one third of the group to be "fallow" in the first year (the motivational challenges faced by this subgroup were distinctive). In larger part, the challenge was simply one of sustaining interest and effort over a very long time. We noticed a clear drop-off in attendance at the monthly project meetings and declines both in the number and length of journal entries.

An assessment project such as this requires thinking through very carefully a multistage plan for faculty motivation that recognizes both the dampening effects of a quasi-experimental design and that explicitly addresses the "natural" dampening effect of time and familiarity.

Monitoring the Treatment and Data Collection. One of the things we learned most clearly from the exit interviews was that participants, despite the number of handouts and number of group meetings, maintained diverse ideas about the treatment -- its purposes and priorities -- as well as about their data provision obligations. It was not, as we learned, merely a matter of stating and restating requirements verbally and in writing; rather, we needed to "monitor" periodically how the treatment was going and the quality



and extent of the data being provided. In particular, a project such as this should during the first year (especially the first semester) check in with each faculty member on an individual basis to determine how the treatment is proceeding as well as provide that faculty member with feedback on the quality of data they were providing. These individual interviews would have provided an ideal opportunity to test participant understanding of the project, the treatment, and their role. We depended on the faculty development coordinators at each campus to do that and their work was quite uneven. In sum, the exit interviews (which were not part of the original proposal, but which we realized needed to be done for the participants) should have occurred at least annually and been integrated into the project from the very beginning.

The Nature, Quantity, and Sources of Data. While the number of faculty subjects was small, the amount of data collected from each was massive. There was so much data and, quite candidly, insufficient attention paid in advance to how that data would be analyzed. In particular, insufficient prior thought had been given to the relationship between the qualitative data elements and the quantitative data elements. When the portrait that emerged from the two separate streams of data diverged, there was no basis for connecting qualitative and quantitative items, and allowing them to mutually inform each other.

Finally there is the matter of getting data from the students of faculty subjects, especially academic achievement data. This constituted the single most troublesome part of the project. Not only are the students not particularly motivated to provide such data (and addressing the student motivation issue is something that future projects need to do), but the faculty themselves have major issues on this score. Most faculty (1) do not want



to take any extra time from their course to have students provide data that is not part of the course; and (2) are troubled by the ethics of asking students to take on something that is not strictly speaking part of the course (despite the student consent form we used). The major challenge we faced was dealing with faculty on this issue. We succeeded in only a limited fashion; and this deserves much further attention from those who want to undertake serious assessment of the impact of faculty development programming.

The Outcomes Assessed. When all is said and done, the questions remain about the appropriateness of the outcomes selected for assessment. In part, the issue is one of the "contextualization" of outcomes, i.e., each faculty member comes to this (or any other) faculty development experience with their own predispositions and the effects are often subtle and rather different depending on individual agendas. When one seeks a few general effects, we fear that you lose some of the unanticipated and individualized impacts that are part of the "real" treatment effects. This suggests that a good deal more attention needs to be focused on the expectations and goals of individual faculty members; and that the assessment effort may need to asses the program treatment relative to these individual goals and expectations.



Table 1. Demographic and Professional Data

Faculty	Institution	Discipline	Rank	Highest	Degree	Years in	Tenured
#				Degree	Granting	College	Y/N
					Institution	Teaching	
11	Bergen	Sociology	Prof	PhD	NYU	24	Y
12	Bergen	Horticulture	Prof	PhD	Maryland	· 27	Y
13	Bergen	Science	Assoc	PhD	NYU	27	Y
15	Bergen	Math	Assoc	EdD	Rutgers	27	Y
16	Bergen	Sociology	Prof	PhD	Rutgers	16	Y
21	Morris	Psychology	Assoc	MA	Temple	23	Y
23	Morris	Sociology	Prof	PhD	NYU	27	Y
24	Morris	ChemBio	Asst	MS	Fairleigh D.	7	Y
25	Morris	Math	Assoc	MA	Montclair	10	Y
26	Morris	Sociology	Prof	MA	Adelphi	26	Y
31	Rutgers	Math	Assoc	PhD	Illinois	8	Y
32	Rutgers	Psychiatry	Prof	PhD	Columbia	7	Y
33	Rutgers	Psychology	Assoc	PhD	Rutgers	6	Y
34	Rutgers	Sociology	Assoc	PhD	Wisconsin	12	Y
35	Rutgers	Poli Sci	Prof	PhD	Colorado	19	Y
36	Rutgers	Biology	Prof	PhD	Cornell	20	Y
41	Kean	History	Prof	PhD	Columbia	26	Y
42	Kean	Math	Assoc	PhD	Yeshiva	21	Y
43	Kean	Chemistry	Prof	PhD	SUNY	17	Y
44	Kean	Biology	Assoc	MA	Columbia	40	Y
45	Kean	Math	Asst	MA	Kean	28	Y
46	Kean	Biology	Asst	PhD	Colorado	6	N

Data were not provided for Faculty 14



Table 2. Partnering: Demographics and Schedule of Participation

	Year 1			Year 2			Year 3	
Instructor	Discipline	<u>Gender</u>	Instructor	<u>Discipline</u>	<u>Gender</u>	Instructor	<u>Discipline</u>	<u>Gender</u>
ll s	ociologist	male	11	sociologist	male	11	sociologist	male
	orticulturist	male	12	horticulturist	male	12	horticulturist	male
13 b	piologist	female	13	biologist	female	(d)	biologist	female
14 c	nathematician	male	15	statistician	male	14	mathematician	male
15 s	tatistician	male	14	mathematician	male	15	statistician	male
16 s	sociologist	male	16	sociologist	male	16	sociologist	male
21 p	sychologist	female	21	psychologist	female	21	psychologist	female
22 * 6	oiologist	male	27	mathematician	female	27	mathematician	female
23 s	ociologist	male	23	sociologist	male		sociologist	male
24 ե	piologist	female	24	biologist	female	24	biologist	female
25 r	nathematician	female	25	mathematician	female	25	mathematician	female
26 s	ociologist	male	26	sociologist	male	26	sociologist	maie
31 n	nathematician	male	31	mathematician	male	31	mathematician	male
32 p	osychologist	male	32	psychologist	male	32	psychologist	male
33 p	sychologist	male	33	psychologist	male	<-li>4.1	psychologist	male
34 s	sociologist	male	34	sociologist	male	34	sociologist	male
35 p	political scientist	male	35	political scientist	male	35	political scientist	male
36 b	oiologist	male	36	biologist	male	36	biologist	male
41 h	nistorian	male	41	historian	male	41	historian	male
42 r	nathematician	female	44	biologist	male	44	biologist	male
43 c	hemist	male	42	mathematician	female	8 1	mathematician	female
44 t	piologist	male	46	biologist	female	43	chemist	male
45 r	nathematician	female	43	chemist	male	45	mathematician	female
46 t	piologist	female	45	mathematician	female	46	biologist	female

^{*} Instructor 22 dropped out of the project after the first semester because of health reasons; replaced by Instructor 27 Shading indicates ACTIVE participation

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Table 3. Faculty Survey: Changes in Course Due to PIL

_	Changes I	Changes in Course This Semester	Semester Semester	×	Work on Next Lime	ıme		Change from PIL][
	Teaching	Delivery		Teaching	Delivery		Student		Relationships
	Methods	Systems	Interpersonal	Methods	Systems	Interpersonal	Learning	Teaching	with Colleagues
1		+		+	+	+	+	+	
12				+	+		+	+	
13	+	+	+	+	+		+	+	+
14	n/a			n/a			n/a		
15							+		+
16	+	+	+	+	+	+			+
-			_	+	+	+	+		
23		+	+	- 1	- +	- +	- +	+	
2 4 6	6/u	-	-	· u	•	•	n/a		
	‡ +		+	+	+	+	+		+
72	+	+	+	+	+	+			+
31	+			+	+		+	+	+
32	+	+	+	+	+	+	+	+	+
33	+	+	+	+	+		+	+	+
34				+	+	+		+	+
35	n/a			n/a			n/a		
.36	+		+	+	+	+	+	+	+
41	+	+	+	+			+	+	+
42	n/a			n/a			n/a		
43				+	+		+	+	
44	n/a				+	,			
45	n/a			n/a			n/a		
77	4	4		+	+				

+: positive response for years 1, 2, or 3 no symbol: no response for years 1, 2, or 3 n/a: no data available



(n)

Table 4. Faculty Survey: Changes from Year 1 to 3 By Variable

ERIC Full Text Provided by ERIC

		Teachin	g Activities		Teachi	Teaching Techniques
	Academic Skills	Descriptive Impor	Important for	Faculty	Characteristic	Effective for
	Required	no L Jon	Student Motivation	Influence	of You	Improving Performance
-	3+	3+	3+	0	0	5+
12	+9	+	0	2+	0	0
13	+9	3+	4+	3+	0	0
14						
15	3+	+	3+	2+	0	3+
16	+9	+9	++	3+	+	++
	ć	•		ć	<	•
71	3+	+4	+9	+7	5	+
23	2+	0	0	<u>+</u>	3+	0
25	+ 9	2 +	2+	4+	2+	4+
26	3+	+	4+	2+	+	4+
č	(•	•	•	•	
31	+5	0	+	0	0	3+
32	7+	+	+1	3+	0	+
33	4+	3+	2+	2+	<u>+</u>	0
34	7+	+	4+	3+	. 0	3+
35						
36	+9	+	2+	<u>+</u>	0	0
41	+6	+4	+9	3+	0	0
42						
43	3+	4+	7+	3+	0	5+
44						
45	+9	<u>+</u>	C	<u>+</u>	c	<u>+</u>
7				- 1		

Symbols represent numbers of changes from year 1 to year 3 for each category



	=			7			7			3			3			ង		
	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3		Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3
Course relevance/personal growth	3.73	3.62	3.49	3.84	3.93	3.93	3.85	3.65	3.65		2.87		2.84	2.21	2.53	3.43	3.76	3.41
Instructor expectations/clarity	4.51	4.3	4.23	3.82	3.68	3.77	4.23	4.16	4.05		3.77		3.62	3.09	2.32	4.55	4.74	4.49
Faculty/student interactions/progress	3.58	3.73	4.18	3.85	3.67	4.05	3.67	3.2	3.52		3.19		3.53	2.51	17.7	3.84	3.93	3.63
Classroom interactions	4.58	4.4	4.19	3.91	4.08	3.97	3.86	3.55	3.62		3.75		4.11	3.42	3.13	4.43	4.75	4.29
Student input	4.32	4.23	4.18	4.17	4.13	4.19	3.73	3.74	3.9	3.41	3.48		3.74	2.93	3.13	4.09	4.5	3.9
	17			77			77						97					
	Year 1	Year 2	Year 3	Year 1		Year 3	rar l	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3			
Course relevance/personal growth	3.59	3.56	3.64	3.42		3.44	3.34	4.22		3.26	2.93		3.34	3.21	3.51			
Instructor expectations/clarity	4.49	4.33	4.4	4.14		4.23	3.91	4.67		4.26	3.61		4.06	3.95	4.25			
Faculty/student interactions/progress	3.99	3.86	3.88	3.55	3.58	3.47	2.8	6.4		4.08	3.37		3.46	3.3	3.44			
Classroom interactions	4.2	4.42	4.44	4.35		4.23	4.39	s		4.15	3.68		4.38	4.24	4.35			
Student input	4.12	4.14	4.27	4.2		4	3.69	4.75	_	3.78	3.22		4.18	4.03	4.31			
	15			32			33			X			35			35		
	Year 1	Year 2	Year 3	Year 1			Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3
Course relevance/personal growth	2.97	2.93		3.4			3.82	3.68	3.8	3.77	3.69	3.66	3.45			3.6	3.74	3.74
Instructor expectations/clarity	4.11	4.16		3.94			4.22	4.18	4.42	4.57	4.4	4.32	3.23			4.28	4.23	4.51
Faculty/student interactions/progress	3.33	3.76		3.3	3.37	3.59	3.28	3.21	3.43	3.99	3.78	3.93	3.55			3.58	3.83	4
Classroom interactions	3.97	4.22		4.19			4.37	4.14	4.3	4.52	4.38	4.39	4.21			4.42	4.53	4.61
Student input	3.2	3.28		4.03			4.19	4.24	4.2	4.3	4.39	4.08	4.06			3.89	4.21	4.23
	4			42			34			#			45			9		
	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3	Year 1	Year 2	Year 3
Course relevance/personal growth	2.85	2.9	3.21	3.5	3.01		3.49	3.41	3.21				2.51			3.13	3.39	2.72
Instructor expectations/clarity	4.03	3.84	4.2	<u>4</u>	4.38		4.21	4.32	4.37				3.74			4.15	4.47	4.16
Faculty/student interactions/progress	2.96	2.95	3.42	3.89	4.16		3.88	3.84	3.84	3.62			3.45	3.18		3.44	3.63	3.65
Classroom interactions	4.13	3.91	4.23	4.11	4.29		4.21	4.45	4.39				406			3.97	4.3	4.1
Student input	3.8	3.24	3.49	3.23	3.3		3.75	3.64	3.59				3.04			3.69	4.13	3.61

Student urput 1=Disagree Strongly, 5=Agree Strongly



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Table 6. Student Survey: Ways Students Have Changed Because of This Class

	Year 3	26.67	62.50	21.30		13.33	17.28	31 11	11.10	30.95		29.82	33.34	39.02	11.54	39.32	31.94		15.15	55 00		40.48		31.25	39.47
No Change	Year 1	29.33	23.08	48.94	,	49.02	20.51	61 90	01.70	45.61		45.26	48.73	43.41	49.25	37.04	28.57		34.96	3 51		52.08		59.65	18.62
sbouses	Year 3	1.11	0.00	5.56		26.67	0.00	000	00.0	00.0		19.30	1.67	6.10	1.28	1.13	2.78	-	2.27	000		4.76		31.25	14.04
Negative Responses	Year 1	0.00	0.00	0.00		5.88	0.00	0	00.0	0.00		2.38	00.00	2.64	2.28	0.34	0.00		1.62	1 75		0.00		17.54	7.84
	% change	-7.40	-12.19	3.80		-1.44	3.33	10.01	13.34	-3.26		-10.84	6.28	3.37	5.31	-2.74	6.54		-5.91	1 49		7.73	_	10.76	-1.50
Affective	Year 3	10.00	8.33	10.19		4.44	13.58	10.01	15.54	14.28		7.01	21.66	7.32	16.67	15.10	20.83		11.97	9	8	11.90		12.50	4.38
7	Year 1	17.40	20.52	6:36		5.88	10.25	9	0.00	17.54		17.85	15.38	3.95	11.36	17.84	14.29		17.88	2 51	•	4.17		1.74	5.88
	% change	12.45	-4.67	16.76		-9.15	-5.37		10.47	26.70		-7.57	98.9	6.71	8.41	3.05	-6.36		12.49	15.71		2.95		0.56	-3.81
Cognitive		6	29.17	56.48		22.21	39.50	0	47.77	54.77		24.56	35.06	42.24	37.19	40.75	44.44		51.52	36.01	10.00	33.32		14.58	32.46
	Year 1	45.34	33.84	39.72		31.36	44.87		31.75	28.07		32.13	28.20	35.53	28.78	37.70	50.80		39.03	10.30	17.30	30.37		14.02	36.27
	Instructor		12	13	14	15	16	-	17	23	24	25	26	31	32	33	34	35	36	- ;	41	43	44	45	46

Numbers represent percentages of "yes" responses

Table 7. Student Survey: Academic Achievement Scores By Faculty

	Acad	emic Achiev	ement		
	I	Mean Score	s		
Faculty	Year 1	Year 3	Difference	<u>F</u>	Significance
11	7.160	7.429	0.269	1.744	0.1844
12	5.692	6.667	0.974	0.223	0.6442
13	8.046	6.750	-1.295	5.924	0.0195
14	5.083	7.400	2.317	2.366	0.1445
16	7.941	6.421	-1.520	5.526	0.0247
21	7.308	8.500	1.192	1.828	0.1941
23	7.250	6.643	-0.607	0.575	0.4558
24	5.357	4.000	-1.357	1.628	0.2166
25	5.000	7.588	2.588	7.450	0.0015
26	7,870	5.500	-2.370	15.239	0.0003
33	6.000	7.076	1.076	7.992	0,0056
36	6.406	5.091	-1.315	4.184	0.0176
41	3.200	4.769	1.569	4.179	0.0512

Shading indicates a significance level of less than .05 Mean Scores Grading Scale: 1=A+; 2=A; ... 9=C-. Missing data and

incomplete responses were not included.

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High Table 8. Change/Reflection Grid BOZÞEC

		Low					l	ಶ ೧	ZÞ	- ;	H C							High
		0			—				<u> </u>	٠,				ယ				4
	0 Lo	33		,														
	1	44	15	4								_						
				26	23			24	2									
REFLI	2		į	42 43	14				32	7.6								
REFLECTION												25	_					
	y					12					21	45			46			
	•							11			16							-
	High 4													31	and the same of th	13	•	36



Appendix A
Student Pre-Test



PARTNERS IN LEARNING RESEARCH PROJECT STUDENT INFORMED CONSENT FORM

Your college is participating in a research project designed to assess the impact of the "Partners in Learning" ("PIL") program on teaching and learning. The "PIL" program is designed to improve teaching and learning in higher education by bringing faculty members together as partners to work on their teaching. The research project, sponsored by the U.S. Department of Education's Fund for the Improvement of Postsecondary Education (FIPSE) is being conducted by the New Jersey Institute for Collegiate Teaching and Learning (NJICTL) which is housed at Seton Hall University. A critical aspect of this research project is understanding students' experiences in the classroom.

Your institution has authorized us to contact you to solicit your participation in this project. Your privacy as a study participant will be fully respected. While members of the immediate research team will collect information from you regarding your experiences in this class and your educational goals, your responses will remain confidential and your name will not be associated with the results in any way.

As part of this research project we ask that you respond to a brief survey instrument, given during class time, at the beginning and end of the term. Completion of the two instruments will take at least an hour but no more than two hours. We also request access to your registrar's data (NJ Basic Skills test scores and college grade point average). For most of you, participation in this project will end at the end of this term. A few of you, however, will be contacted regarding longer-term participation.

We expect that you will find your involvement in this research project interesting and beneficial. Nevertheless, we want to emphasize that you may refuse to answer any questions or decline the use of data without penalty of any kind. You are free to withdraw your consent and to discontinue participation at any time, without prejudice. If you have any questions or comments regarding specific aspects of the research project, please feel free to contact Dr. Martin Finkelstein, Director of NJICTL, at (201) 761-9704. If you are interested in your institution's participation, contact your Academic Dean.

This project has been reviewed and approved by the Seton Hall University Institutional Review Board for Human Subjects Research. The IRB believes that the research procedures adequately safeguard the subject's privacy, welfare, civil liberties, and rights. The Chairperson of the IRB may be reached through the Office of Grants and Research Services. The telephone number of the office is (201) 378-9806.

I have read the material above, and any questions I asked have been answered to my satisfaction. I agree to participate in this activity and authorize the research team to attain appropriate data from the registrar, realizing that I may withdraw without prejudice at any time.

Print Name	Date

(Signature)

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PARTNERS IN LEARNING: THE STUDENT'S EXPERIENCE

[]	į
Instructions:	
Unless otherwise indicated, please mark an "X" next to the answer you choose.	
BACKGROUND AND COLLEGE GOALS	all a ven ourrently
1. What is your sex?	8. What is the highest academic degree that you currently plan to get?
Female Male	NoneAssociate Degree (A.A. or equivalent)
2. Age on your last birthday?	Bachelor's Degree (B.S., B.A., etc.) Master's Degree (M.A., M.S., etc.)
3. Your Racial/Ethnic Identification?	Doctoral Degree (Ph.D. or Ed.D.) Medical Degree (M.D., D.D.S., or D.V.M.) Law Degree (LL.B. or J.D.)
African American/Black Asian American/Oriental	Other (describe):
Caucasian/White (Non-Hispanic) Latino(a)/Hispanic Native American	How sure are you that you will get an undergraduate degree?
Other	Completely sure 1 will get my degree from thisinstitution
4. Citizenship Status:	Completely sure I will get my degree, but not
U.S. Other	necessarily from this institution
What is the highest level of formal education your parents have? (Mark one in each column)	Not completely sure I will get my degree 10. Do you plan to enroll at this institution next semester?
Mother Father	
Grammar School or less	Yes No
Some High School High School Graduate	Not sure
Some College — —	11. What is your current class standling?
College Degree — — — — — — — — — — — — — — — — — —	Freshman
6. What is your current enrollment status at this	Sophomore
college/university?	Junior Senior
Full-Time Student	Other:
Part-Time Student	12. What is/are the major reason(s) you took this course?
7. Why did you enter this college? (Please mark only one.)	(mark all that apply)
7. Why did you enter this conege: (Trease many only	My advisor suggested it
No definite reason in mind	It is required for my major
To take a few job-related courses To take courses necessary for transferring to	It fulfills a general education requirement
another college	It sounded interesting It was the only class available
To obtain or maintain a certification	It is a free elective
To complete a vocational/technical program To obtain an Associate Degree	_
To obtain a Bachelor's Degree	
13. Students have different likes when it comes to class structur	e and teaching style. Please look over the two phrases at each letter
below and mark an "X" in the scale closest to the end most more than multiple choice tests, you would place an "X" o or if you like them both the same amount, you would plac	on the far left side; if you don't like one phrase more than the other
	:True-false or multiple choice tests
B. Required Attendance for class:_:_:_:_:	: Attendance not required
C. Doing a project with several::::::	: Doing a project by yourself
others in the class	· v / / //
D. Professors who leave it up to	: Professors who often check up on
you to keep up with your work	you to make sure that your work is being done properly and on time
•	: A class that presents different points
E. A class that presents a clear::::	of view and leaves it up to you to
bount of som	develop your own point of view



independence even through the assignments may be vague and you are masure of what's expected

Lecture classes

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A class that stresses clear requirements even though it may restrict your

independence

_:__ Discussion classes

Appendix B
Student Post-Test
Year 1



Instru	ctions:				7.	Why did you enter this college? (Please mark only one.) No definite reason in mind
		vise indicated, please mar	kan "X" ı	next to the		To take a few job-related courses
unswer you choose. PART I. BACKGROUND AND COLLEGE GOALS		ALS	To take courses necessary for transferr another college To obtain or maintain a certification			
· 1.		is your sex?				To complete a vocational/technical program
	_	Female				To obtain an Associate Degree To obtain a Bachelor's Degree
	_	Male				To obtain a Dacheloi's Degree
2	Age on	your last birthday?	_		8.	What is the highest academic degree that you currently
2	Varia 1	Racial/Ethnic Identificatio	5 2			plan to get? None
3.		African American/Black	11 :			Associate Degree (A.A. or equivalent)
		Asian American/Oriental				Bachelor's Degree (B.S., B.A., etc.)
		Caucasian/White (Non-Hi	spanic)			Master's Degree (M.A., M.S., etc.)
		Latino(a)/Hispanic	• /			Doctoral Degree (Ph.D. or Ed.D.)
		Native American				Medical Degree (M.D., D.D.S., or D.V.M.)
	_	Other				Law Degree (LL.B. or J.D.)
	Cialma.	bi- Ceatura				Other (describe):
4.		nship Status: U.S.			Q	How sure are you that you will get an undergraduate
		Other			٦.	degree?
	_	Other				Completely sure I will get my degree from this
5.	What	is the highest level of forr	nal education	on your		institution
		s have? (Mark one in eac		·		
			Mother	Father		Completely sure I will get my degree, but not
		nar School or less	_	_		necessarily from this institution
		High School	_	_		Not completely ours I will get my decree
		School Graduate	_	_		Not completely sure I will get my degree
		College e Degree		_	10	Do you plan to enroll at this institution next semester?
		raduate Degree	_			Yes
	1 031 C	radate Depte	_	_		No
6.	What	is your current enrollment	status at t	his		Not sure
	college	/university?				
	_	Full-Time Student				
	_	Part-Time Student				
below a	nd ma ultiple	rk an "X" in the scale clos	est to the eace an "X" o	end most like your ch on the far left side; if y	ioice. F	ing style. Please look over the two phrases at each letter or example, in item A if you like essay tests much more 't like one phrase more than the other or if you like them
	A.	Essay tests	_:_		True-f	alse or multiple choice tests
	B. R	equired Attendance for cl	ass:	:::_	Attend	lance not required
		Doing a project with severa	al:	:::_	Doing	a project by yourself
	ם ד	Professors who leave it up	to :		Profes	sors who often check up on
		ou to keep up with	—.—	··	-	make sure that your
		our work			work i	s being done properly and on time
	E A	A class that presents a clea			A clas	s that presents different points
		point of view	<u> </u>	·—·—·—·—		w and leaves it up to you to
	,	•				p your own point of view
	F. 4	class that stresses your	•		A clas	s that stresses clear requirements
		dependence even though				hough it may restrict your
		e assignments may be vag	ue and			endence
		ou are unsure of what's ex			-	
	_	<u>.</u>				
	G.	Lecture classes	:	:;;;_	_ Discus	sion classes



PART II. EXPERIENCES IN THIS COURSE

12. Listed below are various sentences about this course and its instructor. Please show the extent to which you agree or disagree with each by circling the number that best fits your answer. 1 = strong disagreement and 5 = strong agreement.

Agree Strongly					
Neither Agree Nor Disagree Disagree					
Disagree Strongly————	7				
A. The presentation of material in this course is well organized.	1 2 3 4 5				
B. The instructor keeps students informed of their progress.	1 2 3 4 5				
C. I am developing more confidence in myself because of this class.	1 2 3 4 5				
D. The instructor checks to see if students understand before going on to new things.	1 2 3 4 5				
E. I feel I am not performing up to my potential in this course.	1 2 3 4 5				
F. The instructor often points out practical applications and concepts.	1 2 3 4 5				
G. Students in this course are free to disagree and ask questions.	1 2 3 4 5				
H. This course requires my best intellectual effort.	1 2 3 4 5				
I. The instructor gives individual attention to students in the class.	1 2 3 4 5				
J. The instructor asks for more than students can get done.	1 2 3 4 5				
K. I like this subject more because of taking this class.	1 2 3 4 5				
L. Through this course I am learning to know the main points and central issues in this field.	1 2 3 4 5				
M. The instructor is not willing to meet and help students outside class.	1 2 3 4 5				
N. I have a strong desire to take this course.	1 2 3 4 5				
O. I am gaining a better understanding of myself through this course.	1 2 3 4 5				

Neither Agree Nor Disagree Disagree	, —			7	
Strongly Disagree	٦				
P. The instructor criticizes students when they make errors.	1	2	3	4	5
Q. The instructor is well prepared for each class.	1	2	3	4	5
R. The instructor is receptive to discussion outside class.	1	2	3	4	5
S. The instructor maintains good feeling in the class.	1	2	3	4	5
T. The instructor motivates me to do my best work.	1	2	3	4	5
U. The instructor relates course material to real life situations.	1	2	3	4	5
V. The instructor does not use class time efficiently.	1	2	3	4	5
W. The instructor answers student questions in a way that helps students.	1	2	3	4	5
X. Through this course I am learning to value my viewpoints.	1	2	3	4	5
Y. The instructor isn't sensitive to student difficulty with course work.	1	2	3	4	5
Z. Through this course I am gaining a good understanding of concepts/principles in this field.	1	2	3	4	5
AA. The instructor treats students with respect.	1	2	3	4	5
BB. The instructor assigns a reasonable amount of work to the class.	1	2	3	4	5
CC. The instructor uses students' questions and ideas in the lecture.	1	2	3	4	5
DD. The instructor doesn't stimulate my intellectual curiosity.	1	2	3	4	5

Strongly Agree-



answer sessions.

difficult points.

EE. The instructor has teacher-student

discussions as opposed to just question-

interests and talents through this course.

GG. The instructor makes good use of examples and illustrations to get across

FF. I am increasing my awareness of my own 1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

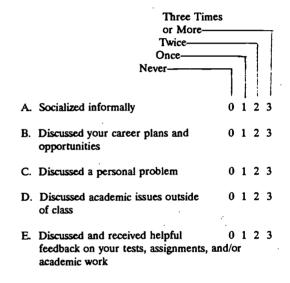
Agree Strongly—————							
Agree							
Neither Agree Nor Disagree———————————————————————————————————							
Disagree Strongly———	_	l		İ			
5 57			-	1			
HH. The instructor praises students for good ideas.	1	2	3	4	5		
II. I am interested in doing outside reading about the course material.	1	2	3	4	5		
JJ. The instructor acknowledges all questions when possible.	1	2	3	4	5		
KK. The instructor's explanations are unclear.	1	2	3	4	5		
LL. I am learning to apply principles from this course to new situations.	1	2	3	4	5		
MM. The instructor suggests specific ways students can improve.	1	2	3	4	5		
NN. The instructor presents challenging, thought-provoking ideas.	1	2	3	4	5		
OO. The instructor shows a genuine concern for students.	1	2	3	4	5		
PP. Course requirements are clear.	1	2	3	4	5		
QQ. The instructor is confused by unexpected questions.	1	2	3	4	5		
RR. I am becoming more interested in the subject matter of this course.	1	2	3	4	5		
SS. The instructor encourages students to ask questions or make comments.	1	2	3	4	5		
TT. The instructor uses concrete, everyday examples to explain concepts and principles.	1	2	3	4	5		
UU. The instructor doesn't really listen to what students have to say.	1	2	3	4	5		
VV. I am stimulated to discuss related topics outside of class.	1	2	3	4	5		
WW. The instructor knew when students didn't understand a particular point.	1	2	3	4	5		
XX. I feel free to ask questions or express my opinions.	1	2	3	4	5		
YY. The instructor often fails to define new or unfamiliar terms.	1	2	3	4	5		
ZZ. The instructor encourages student comments even when they turn out to be incorrect or irrelevant.	1	2	3	4	5		

What is/are the major reason(s) you took this course
choose one)
My advisor suggested it
It is required for my major
It fulfills a general education requirement
It sounded interesting
It was the only class available
It is a free elective
4. Were you interviewed during this semester, by your
structor or by another faculty member about your

14 in experiences, for the "Partners in Learning" Program?

__Yes __No

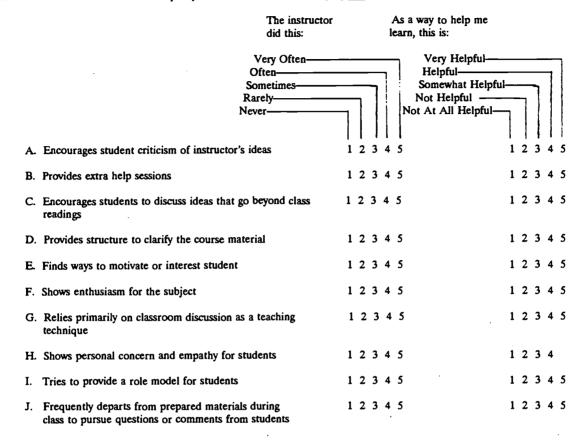
15. We are interested in how you relate to faculty on this campus. How often have you done each of the following with the faculty member teaching this course since the beginning of the semester?



16. Please list up to three ways in which you have changed because of this class (e.g. developed new skills, changed world view, are less interested in the subject, behave differently, etc.). (If there is none, say so).



17. Listed below are some statements teachers have used to describe the most important things they do to assist student learning. Please circle the appropriate number in the first column to show the extent to which the instructor of this course did these things, and in column 2, circle the number which shows how helpful you think the action is in helping you learn.



18. To what extent do you feel each of the following (1) <u>Describes this</u> instructor, and (2) is <u>important</u> to <u>your</u> interest/motivation in a class? 1 = not at all; 10 = a great deal.

	Descriptive of This Instructor	Important to Your Interest/Motivation
A. Stimulate studen	t interest 12345678910	12345678910
B. Present material enthusiastically	12345678910	12345678910
C. Meet course obje	ectives 12345678910	12345678910
D. Be respectful of	students 12345678910	12345678910
E. Motivate student attain high stand		12345678910
F. Be prepared and organized	12345678910	12345678910
G. Be intellectually challenging	12345678910	12345678910



19. Listed below are a variety of academic skills and talents that can be improved or strengthened through particular classes. Please circle the number which best matches (1) the amount of progress you feel you have made in each of these areas as a result of this course, and (2) how important this skill is to you and your goals for college.

Amount of Progress

Importance of

	You've Ach as a Result	ieved		Skill to <u>You</u> se
	Much Progress- Some Progress- Little Progress- No Progress-			Very Important Somewhat Important Not Very Important Not At All Important
A. Factual knowledge: acquiring new terms, methods, or information	1	2 3	4	1 2 3 4
B. Skills Training: learning specific tasks or professional skills	1	2 3	4	1 2 3 4
C. <u>Principles</u> : learning new theories, generali and ways of organizing information	zations, 1	2 3	4	1 2 3 4
D. Application: learning how to use new info concepts, and methods to solve current pro		2 3	4	1 2 3 4
E. <u>Creativity</u> : developing creative capacities to be more expressive or learning how to a solve problems in a new way		2 3	4	1 2 3 4
F. Appreciation: gaining greater sensitivity to intellectual, scientific, or artistic endeavors		2 3	4	1 2 3 4
G. <u>Self-Understanding</u> : acquiring a better seand/or relationships with others	nse of myself 1	2 3	4	1 2 3 4
H. <u>Self-Management</u> : learning how to plan m for and/or control personal, academic, and professional life		2 3	4	1 2 3 4
I. <u>Critical Thinking</u> : improving my rational to problem solving, and decision making capa	thinking, 1 acity	2 3	4	1 2 3 4
J. <u>Communication</u> : developing skill in expresorally or in writing	ssing myself 1	2 3	4	1 2 3 4

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Appendix C
Student Post-Test
Years 2 and 3



Name:	(Please Print Legibly)
-------	------------------------

This information is requested for record-keeping purposes only. It will remain confidential—neither your name nor any other identifying characteristic will ever be associated with your responses.

THIS PAGE WILL BE TORN OFF THE SURVEY ONCE COLLECTED TO ASSURE CONFIDENTIALITY.



Instructions:

therwise indicated, please mark an "X" no	ext to the answer you	4. Do you plan to enroll at this institution next semester?
B COAL		Yes
BACKGROUND AND COLLEGE GOALS		No
 What is your sex? 		Not sure
Female		
Malc		5. What is your current class standing?
		
2. Age on your last birthday?		Freshman
		Sophomore
3. Your Racial/Ethnic Identification?		Junior
		Senior
African American/Black		Other:
Asian American/Oriental		
Caucasian/White (Non-Hispanic)		and the state of t
Latino(s)/Hispanic		6. Were you interviewed during this semester, by your instructor of
Native American		another faculty member, about your experiences for the "Partner
Other		Learning* Program?
		YesNo
ents have different likes when it comes to cla	ass structure and teaching style.	Please look over the two phrases at each letter below and mark an "X" in
sest to the end most like your choice. For ex	nample, in item A if you like essa the other or if you like them both	the same amount, you would place an "X" in the middle.
A. Essay tests	_:_:_:_:_:_	True-faise or multiple choice tests
B. Required Attendance for class		Attendance not required
C. Doing a project with several others in the class	_:_:_:_:_:_	Doing a project by yourself
D. Professors who leave it up to	_:_:_:_:_	Professors who often check up on
you to keep up with		you to make sure that your
your work		work is being done properly and on time
,		
E. A class that presents a clear	: : : : : :	A class that presents different points
point of view		of view and leaves it up to you to
point of view		develop your own point of view
-	: : : : : :	A class that stresses clear requirements
F. A class that stresses your	—·—·—·—·—·	even though it may restrict your independence
independence even though the		even though it may restrict your macpendence
assignments may be vague and		
you are unsure of what's expected		
-		
G. Lecture classes	_:_:_:_:_:_	Discussion classes
re interested in how you relate to faculty on uning of the semester?	this campus. How often have you	done each of the following with the faculty member teaching this course
Three Tis	mes or More	
Twice—		
Once		
Never-		
/ 	1111	
A. Socialized informally	0 1 2 3	
Common mornamy		
B. Discussed your career plans and opportunities	0 1 2 3	
C. Discussed a personal problem	0 1 2 3	1
a. Steament a hatening hissiam		BEST COPY AVAILABLE
D. Discussed scademic issues outside	0 1 2 3	DEDI UUTI AVAILADLE
of class	5 2 5	
Of Cities		
E Discussed and received belaful	0 1 2 3	1
E. Discussed and received helpful		•
feedback on your tests, assignments, and	JOL	50
academic work		

ERIC

9. Listed below are various sentences about this course and its instructor. Please show the extent to which you agree or disagree with each by circling the number that best fits your answer. 1 = strong disagreement and 5 = strong agreement.

Agree Strongly—————		_				_
Agree		-		_		,
Neither Agree Nor Disagree			-	_		
Disagree Strongly————————————————————————————————————			Ţ	1		
Diagree duvingry]			j	
			ı	ł	-	ļ
A. The presentation of material in this course is well organized.		1	2	3	4	5
B. The instructor keeps students informed of their progress.		1	2	3	4	5
C. I am developing more confidence in myself because of this class.	1	l	2	3	4	. 5
D. The instructor checks to see if students understand before going on to new things.	1	ι :	2	3	4	5
E. I feel I am not performing up to my potential in this course.	1	١:	2	3	4	5
F. The instructor often points out practical applications and concepts.	1	. :	2	3	4	5
G. Students in this course are free to disagree and ask questions.	1	2	2	3	4	5
H. This course requires my best intellectual effort.	1	2	?	3	4	5 .
I. The instructor gives individual attention to students in the class.	1	2	!	3	4	5
J. The instructor asks for more than students can get done.	1	2		3	4	5
K. I like this subject more because of taking this class.	1	2	•	3	4	5
L. Through this course I am learning to know the main points and central issues in this field.	1	2		3	4	5
M. The instructor is not willing to meet and help students outside class.	1	2		3	4	5
N. I have a strong desire to take this course.	1	2		3	4	5
O. I am gaining a better understanding of myself through this course.	1	2	;	3	4	5
P. The instructor criticizes students when they make errors.	1	2	. :	3	4	5
Q. The instructor is receptive to discussion putside class.	1	2	;	3	4	5
R. The instructor motivates me to do my best work.	1	2	:	3	4	5
S. The instructor relates course material to real ife situations.	1	2	:	3	4	5

Agree Strongly————	
Agree Neither Agree Nor Disagree Disagree	
Disagree Strongly—	
	-:
T. The instructor does not use class time efficiently.	1 2 3 4 5
U. The instructor assigns a reasonable amount of work to the class.	1 2 3 4 5
V. The instructor uses students' questions and ideas in the lecture.	1 2 3 4 5
W. The instructor has teacher-student discussions as opposed to just question-answer sessions.	1 2 3 4 5
X. I am increasing my awareness of my own interests and talents through this course.	1 2 3 4 5
Y. The instructor makes good use of examples and illustrations to get across difficult points.	1 2 3 4 5
Z. The instructor praises students for good ideas.	1 2 3 4 5
AA. I am interested in doing outside reading about the course material.	1 2 3 4 5
BB. The instructor's explanations are unclear.	1 2 3 4 5
CC. I am learning to apply principles from this course to new situations.	1 2 3 4 5
DD. The instructor suggests specific ways students can improve.	1 2 3 4 5
EE. The instructor shows a genuine concern for students.	1 2 3 4 5
FF. Course requirements are clear.	1 2 3 4 5
GG. The instructor uses concrete, everyday examples to explain concepts and principles.	1 2 3 4 5
HH. The instructor doesn't really listen to what students have to say.	1 2 3 4 5
II. I am stimulated to discuss related topics outside of class.	1 2 3 4 5
 I feel free to ask questions or express my opinions. 	1 2 3 4 5
KK. The instructor often fails to define new or unfamiliar terms.	1 2 3 4 5
LL. The instructor encourages student comments even when they turn out to be incorrect or or irrelevant.	1 2 3 4 5



10. Please list up to three ways in which you have changed because of this class (e.g. developed new skills, changed world view, are less interested in the subject, behave differently, etc.). (If there have been no changes, say so).

11. Listed below are some statements teachers have used to describe the most important things they do to assist student learning. Please circle the appropriate number in the first column to show the extent to which the instructor of this course did these things, and in column 2, circle the number which shows how helpful you think the action is in helping you learn.

		The instructor did this:	As a way to help me learn, this is:					
		Very Often Often Sometimes Rarely Never	Very Helpful Often Helpful Somewhat Helpful Not Helpful Not At All Helpful					
A.	Encourages student criticism of instructor's ideas	1 2 3 4 5	1 2 3 4 5					
В.	Provides extra help sessions	1 2 3 4 5	1 2 3 4 5					
C.	Encourages students to discuss ideas that go beyond class readings	1 2 3 4 5	1 2 3 4 5					
D.	Provides structure to clarify the course material	1 2 3 4 5	1 2 3 4 5					
E.	Finds ways to motivate or interest students	1 2 3 4 5	1 2 3 4 5					
F.	Shows enthusiasm for the subject	1 2 3 4 5	1 2 3 4 5					
G.	Relies primarily on classroom discussion as a teaching technique	1 2 3 4 5	1 2 3 4 5					
Н.	Shows personal concern and empsthy for students	1 2 3 4 5	1 2 3 4 5					
I.	Tries to provide a role model for students	1 2 3 4 5	1 2 3 4 5					
J.	Frequently departs from prepared materials during class to pursue questions or comments from students	1 2 3 4 5	1 2 3 4 5					
K.	Uses a variety of teaching methods (eg. small group activities, student presentations, etc.).	1 2 3 4 5	1 2 3 4 5					



12. Listed below are a variety of academic skills and talents that can be improved or strengthened through particular classes. Please circle the number which best matches (1) the amount of progress you feel you have made in each of these areas as a result of this course, and (2) how important this skill is to you and your goals for college.

Amount of You've Aci ss a Result	•	Importance of Skill to <u>You</u>	
Much Prog Some Prog Little Progres	ress———————————————————————————————————	Very Important Somewhat Important Not Very Important Not At All Important	
A. Factual knowledge: sequiring new terms, methods, or information	1 2 3 4	·	1 2 3 4
B. Skills Training: learning specific tasks or professional skills	1 2 3 4		1 2 3 4
C. <u>Principles</u> : learning new theories, generalizations, and ways of organizing information	1 2 3 4		1 2 3 4
D. <u>Application</u> : learning how to use new information, concepts, and methods to solve current problems	1 2 3 4		1 2 3 4
E. <u>Creativity</u> : developing creative capacities — learnin to be more expressive or learning how to approach and solve problems in a new way	g 1234 I		1 2 3 4
F. <u>Appreciation</u> : gaining greater sensitivity to specific intellectual, scientific, or artistic endeavors	1 2 3 4		1 2 3 4
G. <u>Self-Understanding</u> : acquiring a better sense of mysand/or relationships with others	self 1 2 3 4		1 2 3 4
H. <u>Self-Management</u> : learning how to plan more effect for and/or control personal, academic, and/or professional life	tively 1 2 3 4		1 2 3 4
 I. <u>Critical Thinking</u>: improving my rational thinking, problem solving, and decision making capacity 	1 2 3 4		1 2 3 4
J. Communication: developing skill in expressing mys	telf 1 2 3 4		1 2 3 4



orally or in writing

Appendix D Classroom Observation Protocol



OBSERVATION DATE. CONCEPT ARENA AND ITEMS NUMBER OF TIMES **OBSERVED** N=Never R=Rarely S=Sometimes 0=Often A=Almost Always CLARITY: Teaching behaviors that serve to explain or clarify concepts and principles. 1. Gives several examples of each concept N R 0 Α 2. Uses concrete, everyday examples to explain concepts and principles N R S 3. Fails to define new or unfamiliar terms N) R Α 4. Repeats difficult ideas several times R: N (S) 0 5. Stresses most important points by pausing, speaking slowly, raising voice, repeating words, etc. **(S)** N 0 A 6. Points out practical applications of concepts W) R S 0 Α 7. Answers students' questions thoroughly N R S 0 Α Writes key terms on board or overhead. N R S A 9. Explains subject matter in familiar, colloquial language N R S ENTHUSIASM: Use of nonverbal behavior to solicit student attention and interest. 10. Speaks in a "dramatic" or expressive way N S R 0 Α 11. Avoids eye contact with students (N) R S Α 12. Reads lecture verbatim from prepared notes or text (N)R S

INSTRUCTOR:

INTERACTION: Techniques used to foster student participation in class.

13.	Encourages students to ask questions or make comments	N	R	S	0	A	
14.	Criticizes students when they make errors	Ŋ	R	s	0	A	
15.	Praises students for good ideas	N	R	S	0	A	
16.	Asks questions of individual students	N	R	s	0	A	
17.	Asks questions of class as a whole	N	R	s	<u>(0)</u>	A	
18.	Incorporates students' ideas and questions into lecture	N	- R	s	0	A	
19.	Presents challenging, thought- provoking ideas	N	R	S	0	A	
20.	Uses a variety of media and activities in class	N	R	s	0	A	
	ANIZATION: Teaching behaviors that so anize the subject matter.	erve	to	stru	ıctuı	re (or
21.	Reviews topics covered in previous lecture at beginning of class	$\widehat{\widehat{\mathbf{N}}}$	R	s	0	A	
22.	Gives preliminary overview of lecture at beginning of class	$\widehat{\mathbb{N}}$	R	S	0	Α	
23.	Uses headings and subheadings to organize lectures	N	R	S	o ·	A	
24.	Clearly indicates transition from one topic to the next	N	R	S	6	A	f
25.	Explains how each topic fits into the	ØD/	(R)	idenHA S	9 as c 0	ompa A	eganoion
	course as a whole	1	•				
26.	Periodically summarizes points previously made	0		s			



PACING: Rate of presentation of information, efficient use of class time. 28. Dwells excessively on obvious points R 29. Digresses from major theme of lecture R 30. Asks if students understand before proceeding to next topic N R 31. Sticks to the point in answering students' questions N R Α DISCLOSURE: Explicitness concerning course requirements and grading criteria. 32. Advises students as to how to prepare for tests and exams Ν R S Α 33. Tells students exactly what is expected of them on tests, essays, or assignments N R Α 34. States objectives of the lecture N R S RAPPORT: Quality of interpersonal relations between teacher and students 35. Addresses individual students by name N R S Α 36. Announces availability for consultation outside of class Α 37. Offers to help students with problems R N Α 38. Shows tolerance of other points of view S Α 39. Talks with students before or after class N R , S 0 Α

COMMENTS/NOTES REGARDING CLASS OBSERVED:



Appendix E Syllabi Analysis



Syllabus Checklist

Instructor ID #	Semester/Year	
Personal or De	epartmental Syllabus (P/D)

	Course		
1:	course title and number	22.	required special events
2.	location of classroom		noted (visiting speakers,
3.	days/hours of meetings		field trips)
4.	pre- or co-requisites	23.	major exams & dates clearly
			indicated
	Instructor	24.	types of exams (objective or
5.	name of instructor		essay; comprehensive)
6.	office number	25.	quizzes & dates clearly
7.	office hours		indicated
8.	office hours: special		
	appointments for		Classroom Participation Policies
	counseling, extra help	26.	attendance/tardiness
9.	office phone	27.	anticipated absences (for
10.	home phone	_,.	rescheduling)
11.	name of teaching	28.	class participation
11.	assistant(s)	29.	missed exams/assignments,
12.	· •	29.	and opportunities to make
12.	address/phone of teaching		up the work
	assistant(s)	29.	•
	Texts and Materials	29.	extra credit opportunities
10			Gradina
13.	required texts (authors,	00	Grading
	editions)	30.	grading scheme clearly
14.	supplementary or	0.4	noted
	recommended readings	31.	accommodations: curve,
15.	other materials (supplies)		dropping lowest grade
		32.	policy on academic honesty
	Learning Objectives		and plagiarism
16.	course description		
17.	course learning objectives		Availability of Academic Support
		33.	instructor's tutorials &/or
	Course Calendar/Schedule		study guides
18.	daily/weekly schedule of	34.	departmental tutorials &/or
	topics		study guides
19.	daily/weekly schedule of	35.	campus support services
	readings and homework		
20.	topical schedule (no dates		Special Instructions (Discipline-
	specified)		Specific)
21.	major assignments (papers,	36.	special attendance
	projects) & due dates		requirements, unusual
	clearly indicated		expectations
	•	37.	lab requirements
		38.	special lab reports
			alana aran rana a ala aran



Appendix F Faculty Survey



Partners in Learning: The Faculty Member's Experience

This survey is divided into three parts. In the first part we ask you to respond to questions regarding your <u>focal class</u> in the Partners in Learning Program (i.e. the introductory course you teach that your partner observes).

The questions in the second part were developed based on previous studies of faculty members and are included to give us a sense of how our faculty sample compares to the general faculty population.

The third part asks questions about your experiences in the PIL Program.

Thank you for your participation.

Instructions: Unless otherwise indicated, please circle the appropriate number for the category you choose.

Part I. These questions focus on your "focal" class for the FIPSE study. Please answer them with that introductory course in mind.

1. Please indicate the extent to which you believe each of the following types of learning is an important goal for this (your focal) course.

Use the "extremely important" category only for those skills/learning types that are your primary goals for this course.

·	Extremely important (primary goal) Important Somewhat important Not Very important Not important	
a. Factual knowledge: acquiring new terms, methods, or inform	ation	1 2 3 4 5
b. Skills Training: learning specific tasks or professional skilla		1 2 3 4 5
c. Principles: learning new theories, generalizations, and ways	1 2 3 4 5	
d. Application: learning how to use new information, concepts, current problems	, and methods to solve	1 2 3 4 5
e. <u>Creativity</u> : developing creative capacities — learning to be m to approach and solve problems in a new way	ore expressive or learning how	1 2 3 4 5
f. Appreciation: gaining greater sensitivity to specific intellectu or artistic endeavors	al, scientific,	1 2 3 4 5
g. Self-Understanding: acquiring a better sense of myself and/o	or relationships with others	1 2 3 4 5
h. Self-Management: learning how to plan more effectively for academic, and/or professional life	and/or control personal,	1 2 3 4 5
 Critical Thinking: improving rational thinking, problem solve and decision making capacity 	ing,	1 2 3 4 5
j. Communication: developing skill in expressing oneself orall	y or in writing	1 2 3 4 5



٠	We are interested in the instructional places where on the continuum your instructional your instruction in the middle willy, indicate this by marking the middle	ctional poli	cies and procedures to	n your focal class. Please use the items and scale below to this course would fall. If you use both ends of the continuum rk each scale with an X.
	Essay testa	_::_		True-false or multiple choice tests
b.	Required Attendance for class	_:_:_	_:_:_:_	Attendance not required
c.	Students do projects with several others in the class	_::_	_:::	Students do projects on their own
d.	Leaving it up to the students to keep up in the work	_::-		Regularly checking up on the students to make sure that their work is being done properly and on time
c.	An approach that presents a clear point of view		::	An approach that presents different perspectives and leaves it up to the student to develop her/his own point of view
f.	My class stresses the student's independence even though	_:_:-	_;_;_;_	My class stresses clear requirements even though it may restrict the student's independence

3. To what extent do you believe the following teaching activities are (1) Descriptive of your teaching for your focal course, and (2) Important for student motivation. (1 = not at all, 10 = extremely)

		Descriptive of your Teaching in this course											Important for student motivation								
a.	Stimulate student interest	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
b.	Present material enthusiastically	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
c.	Meet course objectives	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
d.	Be respectful of students	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
e.	Motivate students to attain high standards	1	2	3	4	5	6	7	8	9	10	1	2	. 3	4	5	6	7	8	9	10
f.	Be prepared and organized	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
g.	Be intellectually challenging	1	2	3	4	5	6	7	8	9	10	:	2	: 3	4	5	6	7	8	9	10
h.	Promote communication between instructor and students	1	2	3	4	5	6	7	8	9	10		1 2	2 3	4	5	6	7	8	9	10

student unsure of what's expected of her/him

g. Lecture classes

5. What are two or three things about this course you would like to work on the next time you teach it?

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Part II. The questions in this part focus more broadly on you, your preferences, and your views on teaching improvement and student learning.

4.	Do '	your	interests	lie	primarily	/ in	teaching	or	in	research?
----	------	------	-----------	-----	-----------	------	----------	----	----	-----------

1.	Very heavily in research
	in both, but leaning towards research
3.	in both, but leaning towards teaching
1	Very heavily in teaching

5. Faculty members influence students in a number of ways. On the average, how much influence do you believe you have on undergraduate students in each of the following areas? (1 = A Great Deal, 2 = Quite a Bit, 3 = Some, 4 = Very Little, and 5 = Almost None)

·	Almost None Very Little Some Quite a Bit A Great Deal			
a. Students' understanding of the methods of inquiry	1 2	3	4	5
b. Their involvement in classroom discussion/activities	1 2	3	4	5
c. Their interest/motivation in introductory courses you	teach 1 2	3	4	5
d. Decisions about their major field of study	1 2	3	4	5
e. Shaping their career plans	1 2	3	4	5
f. Their emotional and social development	1 2	3	4	5
g. Their personal philosophy and outlook on life	1 2	3	4	5

6. Please read the statements about teaching techniques below. On the first scale indicate how characteristic the statement is of you, and on the second scale indicate how effective you think the technique is in improving a faculty member's teaching performance. (1 = not at all, 4 = very)

, <i>,</i>	Characteristic of You	Effective for Improving Performance
	Very Characteristic Somewhat Characteristic Not Very Characteristic Not At All Characteristic	Very Effective Somewhat Effective Not Very Effective Not At All Effective

	Not Very Characteristic - Not At All Characteristic	7			Not At All Effective —						
			!	1	ļ		ļ	1	;	ì	
a.	Sharing ideas about teaching methods with colleagues	l	2	3	4		l	2	3	4	
b.`	Introducing new teaching methods or procedures	l	2	3	4		1	2	3	4	
c.	Sharing syllabi with colleagues	1	2	3	4		1	2	3	4	
d.	Observing each other's classroom	1	2	3	4		1	2	3	4	
e.	Attending professional development activities to enhance teaching	1	2	3	4		l	2	3	4	
f.	Incorporating knowledge of different learning styles into one's teaching	1	2	3	4		1	2	3	4	
g.	Interacting with students outside of class time or	1	2	3	4		ı	2	3	4	



office hours

Part III. Exp	erience with PIL	
7a. Think aboresult of your	out your focal class. I participation in the F	Have you made any adaptations or changes to your teaching of this course as a IPSE-PIL project?
	Yes	No (go to Question 8)
7b. If yes, pie overall success element of the	s of the course. Pleas	tations or changes you've made and how you feel these changes have affected the e be as detailed and specific as possible this issue of adaptation is a central
change regard	ling vour understandir	n which you've changed as a result of your participation in PIL (for example ag of students, and their learning, change regarding your interaction and . If you do not feel that you have changed, please so indicate.



4

THANK YOU FOR YOUR PARTICIPATION. PLEASE ATTACH ANY ADDITIONAL COMMENTS.

Appendix G Exit Interview



FIPSE-PIL EXIT INTERVIEWS

1. What is your understanding	of the PIL program?
U	L program: teaching becomes more ing becomes a revitalizing experience: g experiences for faculty.
3. Share observation feedback.	What do you think about it?
a. these seven areas of var differently? (concrete exa	riables in which areas do you do things imples)
b. to what extent did the p	eartnering focus on these areas?
c. to what extent did the o	pportunity to observe another faculty's areas?



d. to what extent did the student interviews focus on these areas?

4. Partnering Relationships: describe the dynamics of the partnership(s).

a. how did you partner give you feedback?

b. what did you do with it (feedback)?

5. Interviews with Students: what kind of feedback/what is the value of feedback from students? What is the most valuable, and what is least valuable?



a. has your view of students changed over the last three years?

b. what is the value of interviewing students?

6. PIL program: would you join a PIL program again knowing what you know now?





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