Service-Learning Outcomes in Florida Higher **Education: An Analysis of Predictors**

Amanda M. Main, Jarrad D. Plante, and Melody Bowdon

Abstract

This study sought to examine how service-learning and student volunteer opportunities shape educational experiences for students by surveying 437 students currently enrolled in service-learning courses from nine participating Florida Campus Compact institutions. The researchers found several predictors that impacted student perceptions of their service-learning experiences, including gender identity, academic discipline, course model, and type of organizational partner. This article presents the current state of service-learning in higher education and presses with an increased urgency for institutions to adopt or expand service-learning programs. The results of this study will better inform service-learning program design as well as future service-learning research.

Keywords: academic discipline, Campus Compact, course model, servicelearning, organizational partners

& Avalos, 1999).

Benefits of Service-Learning

ervice-learning has been defined improved class attendance, and improved as an experiential learning oppor- academic skills such as writing, time mantunity that engages students in agement, exam performance, and critical activities that address community thinking (Fredericksen, 2000; Gallini & needs through intentionally struc- Moely, 2003; Madsen & Turnbull, 2006; tured and reflective activities designed to Rosing et al., 2010). Engagement in acapromote student learning and development demic service-learning has been linked to (Jacoby 1996; Jakubowski, 2003). Kronick greater complexities of understanding social (2007) defined service-learning as "the topics being learned in the classroom and process of integrating active assistance in in the communities being served (Bringle the community into the learning that is oc- & Hatcher, 2009; Eyler & Giles, 1999). curring in the classroom" (p. 300). Prior re- Additional benefits, including increased search has indicated that academic service- academic motivation, problem analysis, learning enables students to apply theory and cognitive development, have also been to practice, understand issues facing the identified (Batchelder & Root, 1994; Eyler & community, enhance personal development Giles, 1999; Osborne et al., 1998). Students (Darby et al., 2013; Eyler & Giles, 1999), and taking service-learning courses have also improve academic performance, leadership demonstrated gains in academic self-efficadevelopment, and self-efficacy (Astin, Sax, cy, confidence when interacting with faculty members outside the classroom, and willingness to seek help from campus administrators (Astin et al., 2000; Astin & Sax, 1998; Kuh, 2008; Yeh, 2010). These benefits dis-Service-learning participants receive ben- tribute across unique student populations, efits inside and outside the classroom, including honors students (Stewart, 2008), including increased social integration and low-income and first-generation students feelings of belonging on campus, increased (McKay & Estrella, 2008; Yeh, 2010), and satisfaction with their collegiate experience, first-year students (Stavrianopoulos, 2008).

Institutional Benefits

Institutions facilitating service-learning programming accrue benefits, such as increased student retention and higher persistence and graduation rates (Bringle et al., 2010; Kuh, 2008; Lockeman & Pelco, 2013). These benefits have been attributed to heightened feelings of fit with, and commitment to, the campus and stronger relationships with faculty and peer groups (Bringle et al., 2010; Kuh, 2008). Bringle et al. (2010) determined that students who participate in service-learning coursework in their first year are more likely to be retained into their second year and ultimately graduate from their institution. First-generation and low-income students report greater institutional commitment and motivation to graduate after participating in service-learning coursework (McKay & Estrella, 2008; Yeh, 2010). Pascarella and Terenzini (2005) identified a within-college effect demonstrating the importance of service-learning as a tool for students to make friends from diverse backgrounds, attend diversity-themed workshops, and take diversity-centered courses, all while participating in civic involvement activities. Many studies note that female students are more likely to engage in service-learning activities, whether the activity occurs domestically or internationally, whether it is voluntary or an academic course requirement. Female students also tend to have significantly higher levels of both intrinsic and extrinsic motivation for college (Brouse et al., 2010; Cox et al., 2014; Dienhart et al., 2016; Kiely, 2005; Miller & Gonzalez, 2010).

Service-learning has different effects based on institution type. In a study on the institutionalization of service-learning as a best practice of community engagement in higher education, Plante (2015) investigated three institutions by type—a small private liberal arts college, a small private teaching university, and a large research university, all within the same geographical area. Although each institution approached community engagement in its own unique way, all three institutions earned the Carnegie Community Engagement Classification in 2008 and reclassification in 2015.

"Besides enrolling for classes, getting inone can do as a student to not only succeed

American higher education, and they offer an opportunity for yielding major impact on the implementation of service-learning around the country. Community colleges have been at the head of the "communitybuilding" movement for several decades, and many of their mission statements call for them to meet community needs and provide services to local organizations and surrounding communities.

They are, after all, of, by, and for the communities in which they dwell. Today they are being recognized in the service learning field for combining what they do best teaching, serving, and modeling civic responsibility. More than any other segment of American higher education, community colleges play a unique role in their own communities. (Barnett, 1996, p. 7)

In a study that investigated students' worldviews during an international service-learning experience, students gained knowledge and open-mindedness in the areas of community and civic engagement (Murray et al., 2015).

In Florida, service-learning has become an established pedagogy within postsecondary education. The Florida Campus Compact (FLCC) consists of over 50 college and university presidents committed to engaging students in active citizenship via participation in public and community service (FLCC, 2019, Welcome). Other key aspects of the organization's mission include inspiring "leadership, philanthropy, conscientious" citizenship, critical thinking and civil discourse in the next generation" and working to develop a more knowledgeable workforce (FLCC, 2019, Goals). Using national data collected via an annual membership survey, the national organization reported that 95% of partner institutions offer service-learning coursework to their students, with an average of 66 courses offered per campus in 2012. The report also suggested that 62% of its 566 member institutions nationwide require service-learning as part of the core curriculum of at least one major, representing an 11% increase since 2010 (Campus Compact, 2013). In a recent volved is the single most important thing study that featured service-learning across Campus Compact institutions, "an overin college, but to get that perfect first job" whelming majority of student participants (Plante et al., 2014, p. 89). Community col- in this study agreed or strongly agreed with leges represent one of the largest sectors of the statements connecting their servicelearning experience as it relates to career employability and community identity" (Plante et al., 2019, p. 110).

Service-learning impacts should be de- Students from nine colleges and universities argue for expanding and improving service- by 23 instructors who were invited to parlearning opportunities.

The Study

The case for service-learning is clear and urgent, as demonstrated in the sections above, but there are many models and frameworks for service-learning with variable outcomes depending on unique characteristics of student population, curriculum design, and institutional type. What does the literature offer Florida instructors and program directors regarding these specific factors? To answer this, we researched students attending Campus Compact colleges and universities within the Sunshine State. The nation's only campus-based civic engagement association in higher education, Campus Compact promotes community and public service that forges partnerships and provides training and resources for faculty seeking to incorporate service-learning into their curriculum (Campus Compact, n.d.).

Campus Compact has conducted various studies on the impact of service-learning in higher education institutions; however, there has been no statewide study on the implications of service-learning in Campus Compact institutions of higher education. To address this gap in the research, the present study aims to assess the effects of service-learning participation on students Measures pursuing postsecondary degrees within the state of Florida. This study seeks to identify the ways in which colleges and universities implement service-learning coursework at their institutions. Specifically, we examined how service-learning and student volunteer opportunities are shaping educational expefocus and different outcomes.

Methods

Participants and Procedures

signed at three critical levels—students, participating in the FLCC initiative served higher education institution, and the larger as participants in this study. College and community (Chupp & Joseph, 2010). The university partners were selected from and case for service-learning in higher educa- recruited at a Florida Campus Compact tion remains compelling at each of these training. Survey links were sent to faculty of three levels. Indeed, the demonstrated record for service-learning courses for disbenefits of service-learning programs for tribution to students. Of the approximately students, institutions, and communities 1,181 students enrolled in 49 classes taught ticipate, 437 students completed the survey, yielding a 35% response rate. Instructors had discretion as to whether to incentivize their service-learning class to complete the online survey. Students were given 6 weeks to complete the survey and received two follow-up communications throughout the study's duration.

> A total of 437 participants responded to the survey, with 22.7% male respondents and 71.2% female respondents with 6.1% of participants not answering. There were 285 students aged 18-21, 70 students aged 22-25, 22 students aged 26-29, 18 students aged 30-39, 20 students aged 40-49, two students aged 50-59, and 20 students who did not respond to the question. Further, 40.5% of the sample identified as Hispanic, 29.7% as White/Caucasian, non-Hispanic, 23.7% as Black, non-Hispanic, 4.1% as multiracial, and 1.9% as Asian/Pacific Islander (percentages total less than 100 due to rounding). Nearly half the student participants (46%) indicated that they had taken one service-learning course; for 18%, it was their second service-learning course; for 16%, their third; for 9%, their fourth; for 5%, their fifth; and 5% indicated that this was at least their sixth service-learning course.

The predictor questions used in the survey requested information such as demographics, majors, course model used, type of service-learning partner, and type of educational institution.

The outcome variables were measured using riences for students and impacting the com- instruments developed for this study. The munities around them. Survey questions first scale measured perceptions of career were from a previous study, "Perceptions enhancement resulting from participation of Service-Learning in the Sunshine State" in a service-learning course using six items (Plante et al., 2019), which had a different with a 6-point agreement Likert response scale. A sample item is "As a result of enor clarified my career goals." Cronbach's reliability at .88. alpha for this scale was .88 in this study. The next scale measured community engagement resulting from participation in a service-learning course using six items with a 6-point agreement Likert response scale. A sample item is "Participation in service-learning increased my confidence in my ability to bring about change in my community." Cronbach's alpha for this scale was .88 in this study. The third scale measured perceptions of learning enhancement resulting from participation in service-learning using seven items with a 6-point agreement response scale. A sample item is "Service-learning helped me to understand how what I am learning in school To establish the predictors of service-learnapplied to the real world." Cronbach's alpha ing outcomes, linear regression analyses for this scale was .92 in this study. All tests were conducted on the variables in IBM of research questions were performed using SPSS 23. linear regression in IBM SPSS 23.

Results and Discussion

Scale Development

Four scales were developed to measure stu-(community engagement), and learning enmaximum likelihood confirmatory factor through the chi-square statistic (χ^2) , conwas applied in this analysis, this measure is heavily influenced by sample size, and accurate estimates of fit for this sample.

The results of the confirmatory factor analysis for the single-factor career enhancement scale demonstrated acceptable fit, χ^2 (9) = 91.806, p < .001, RMSEA = .14, In examining the effects of the disciplines

gaging in service-learning, I have discovered this scale indicated an acceptable level of

The single-factor community connection scale also demonstrated acceptable fit, $\chi^2(9)$ = 84.379, p < .001, RMSEA = .14, CFI = .94,NNFI = .87, and factor loadings (Table 2), as well as a Cronbach's alpha of .88.

The single-factor learning enhancement scale additionally demonstrated acceptable fit, χ^2 (14) = 122.190, p < .001, RMSEA = .13, CFI = .94, NNFI = .89, and factor loadings (Table 3) as well as a Cronbach's alpha of

Predictors of Service-Learning Outcomes

Demographic Predictors

We first examined the impact of demographic characteristics on service-learning outcomes. Results demonstrated that gender was significantly associated with outcomes, with females perceiving higher levels of dent outcomes of service-learning courses. career enhancement (M = 4.86; F(1,397) =Specifically, these scales measured career 4.042, p < .05), community engagement enhancement, connection to community (M = 4.89; F(1,395) = 5.786, p < .05), and learning enhancement (M = 4.86; F(1,395) =hancement, in addition to key demographic 5.786, p < .05) than males (M = 4.62, 4.60, measures. Following the recommendations and 4.62, respectively). Additionally, educaof Hinkin (1998), interitem correlations tional standing was significantly associated were run, and those items that failed to with outcomes, with those earlier in their correlate at least .40 with other items were educational careers perceiving greater levels dropped. Additionally, all remaining items of learning enhancement (F(1,399) = 4.420, were endorsed by at least 5% of the sample p < .05) than those later in their educational in order to ensure adequate variance. careers. Specifically, first-year students re-Each instrument was analyzed through a ported a mean of 5.01, sophomores a mean of 4.72, juniors a mean of 4.52, seniors a analysis in Amos (Version 7.0) (Version 23; mean of 4.87, and graduate students a mean Arbuckle, 2006). Model fit was established of 4.17. Age, race, citizenship status, being a first-generation student, being a part-time firmatory fit index (CFI), non-normed fit versus a full-time student, and whether or index (NNFI), and root mean square error not the student worked in addition to taking of approximation (RMSEA). It should be classes were not significant predictors of noted that although the chi square statistic service-learning outcomes. The following tables show the relationship of demographic predictors to respondents' perception of thus the CFI, NNFI, and RMSEA are more career enhancement (Table 4), community engagement (Table 5), and learning enhancement (Table 6).

Academic Discipline Predictors

CFI = .93, NNFI = .84, and factor loadings in which students majored, results demon-(Table 1). Further, the Cronbach's alpha for strated that students majoring in education

Table 1. Career Enhancement Scale Items and Factor Loadings Item **Factor Loading** Overall, I feel that my service-learning experience added value .73 to my degree. I believe my service-learning activities will be relevant to my .69 future career. I expect to find a better career when I graduate. .64 I have established contacts for future jobs, scholarships, or .76 school references. I have discovered or clarified my career goals. .79 I have gained real-world professional experience. .83

Note. N = 421.

Table 2. Community Connection Scale Items and Factor Loadings Item **Factor Loading** I understand the complexities of a social or political problem in my .77 community better than I did before my service-learning course. Participation in service-learning increased my confidence in my .82 ability to bring about change in my community. I will be more likely to volunteer my time in the community. .75 I have benefitted from interaction from people from different .79 ethnic/social/political groups that are different from mine. I established strong new connections to my community as a result .76 of my service-learning experience. I am more likely to remain a resident of Florida and/or the .63 community where I attended college because of my servicelearning experience.

Note. N = 421.

Table 3. Learning Enhancement Scale Items and Factor Loadings								
Item	Factor Loading							
Overall, I learned more in my service-learning course than I believe I would have in a comparable course without service-learning.	.79							
Service-learning helped me to understand how what I am learning in school applies to the real world.	.80							
Participation in service-learning made me want to learn more about the subject I was studying.	.79							
I understand my own values and ethics better than I did before completing my service-learning course.	.76							
I have improved my problem-solving skills.	.71							
I understood the course material better than I would have in a traditional class as a result of my service-learning experience.	.81							
Service-learning helped me develop a greater excitement/enthusiasm about learning.	.84							

Table 4. Demographic Predictors of Career Enhancement Outcome in Service-Learning										
Demographic Predictors	N	В	SE	β	t	р	R ²			
Gender identity	399	.243	.121	.100	2.011	.045	.010			
Age	408	.008	.046	.009	.178	.859	.000			
Race	408	.021	.041	.025	.505	.614	.001			
U.S. citizenship	408	.046	.169	.014	.274	.785	.000			
First-generation student	408	.170	.108	.078	1.566	.118	.006			
Enrollment status	408	.119	.138	.043	.866	.387	.002			
Educational standing	408	056	.046	061	-1.220	.223	.004			
Work status	408	.006	.032	.010	.194	.847	.000			

Table 5. Demographic Predictors of Community Engagement Outcome in Service-Learning										
Demographic Predictors	N	В	SE	β	t	р	R ²			
Gender identity	397	.283	.118	.120	2.405	.017	.014			
Age	406	023	.045	025	509	.611	.001			
Race	406	006	.042	007	149	.882	.000			
U.S. citizenship	406	190	.165	057	-1.155	.249	.003			
First-generation student	406	.087	.107	.040	.813	.417	.002			
Enrollment status	406	.194	.136	.071	1.427	.154	.005			
Educational standing	402	074	.045	083	-1.662	.097	.007			
Work status	406	021	.031	034	680	.497	.001			

Table 6. Demographic Predictors of Learning Enhancement Outcome in Service-Learning										
Demographic Predictors	N	В	SE	β	t	р	R ²			
Gender identity	396	.240	.121	.099	1.978	.049	.010			
Age	405	011	.046	012	236	.814	.000			
Race	405	.032	.042	.037	.749	.454	.001			
U.S. citizenship	405	133	.172	039	775	.439	.001			
First-generation student	405	.186	.109	.084	1.701	.090	.007			
Enrollment status	405	.162	.137	.059	1.180	.239	.003			
Educational standing	401	097	.046	105	-2.102	.036	.011			
Work status	405	003	.032	004	089	.929	.000			

perceived the highest levels of career en- = 6.147, p < .05), community engagement F(1,416) = 5.603, p < .05).

Conversely, students majoring in business demonstrated a negative relationship to career enhancement (M = 4.32; F(1,418) =8.593, p < .01), community engagement (M = 4.87; F(1,416) = 8.470, p < .01), andlearning enhancement (M = 4.41; F(1,415)= 5.094, p < .05). Additionally, students majoring in computer science also demonstrated a negative relationship to career enhancement (M = 3.62; F(1,419) = 9.313, p)< .01), community engagement (M = 3.67; F(1,418) = 3.935, p < .05). Having service-F(1,417) = 9.362, p < .01), and learning enhancement (M = 3.69; F(1,416) = 7.977, p< .01).

Majors in the arts, health sciences, humanities, life sciences, physical sciences, and partial or small part of the course were not social sciences did not demonstrate significant relationships with service-learning outcomes. The following tables show the relationship of course model predictors to relationship of academic discipline predictors to respondents' perception of career ment (Table 10), community engagement gagement (Table 8), and learning enhance- 12). ment (Table 9).

Course Model Predictors

hancement (M = 5.23; F(1,419) = 4.428, p < (M = 5.23; F(1,416) = 3.773, p < .10), and.05) and learning enhancement (M = 5.27; learning enhancement (M = 5.23; F(1,415)= 4.032, p < .05). Having service-learning make up the majority of the course grade was significantly positively related to career enhancement (M = 4.91; F(1,312) = 5.365, p< .05), community engagement (M = 4.93; F(1,312) = 5.034, p < .05), and learning enhancement (M = 4.90; F(1,311) = 3.999, p <

Having service-learning as the focus of the course was also significantly positively related to career enhancement (M = 5.07; learning as a transparent requirement, requiring service-learning, making servicelearning a major project or independent study and having service-learning as a significant predictors of service-learning outcomes. The following tables show the respondents' perception of career enhanceenhancement (Table 7), community en- (Table 11), and learning enhancement (Table

Organizational Partner Predictors

Regarding the type of community partner Regarding the effectiveness of different that students worked with in their servicecourse models to influence service-learning learning project, large national nonprofits outcomes, the "fourth-credit option" model significantly positively predicted career enshowed significant positive relationships hancement perceptions (M = 5.03; F(1,419)to career enhancement (M = 5.37; F(1,418) = 4.888, p < .05), whereas local nonprofits

Table 7. Discipline Predictors of Career Enhancement Outcome in Service-Learning										
Discipline Predictors	В	SE	β	t	р	R ²				
Arts	.193	.189	.050	1.018	.309	.002				
Business	523	.178	142	-2.931	.004	.020				
Computer science	-1.203	.394	147	-3.052	.002	.022				
Education	.451	.215	.102	2.104	.036	.010				
Engineering	.136	.275	.024	.495	.621	.001				
Health sciences	.038	.110	.017	.341	.733	.000				
Humanities	119	.266	022	447	.655	.000				
Life sciences	.039	.187	.010	.210	.833	.000				
Physical sciences	131	.259	025	506	.613	.001				
Social sciences	.139	.130	.052	1.071	.285	.003				

Note. N = 421.

Table 8. Discipline Predictors of Community Engagement Outcome in Service-Learning									
Discipline Predictors	В	SE	β	t	р	R ²			
Arts	.066	.185	.018	.360	.719	.000			
Business	506	.174	141	-2.910	.004	.020			
Computer science	-1.176	.384	148	-3.060	.002	.002			
Education	.352	.210	.082	1.679	.094	.007			
Engineering	.265	.268	.048	.989	.323	.002			
Health sciences	.149	.108	.068	1.385	.167	.005			
Humanities	270	.259	051	-1.042	.298	.003			
Life sciences	.060	.182	.016	.327	.743	.000			
Physical sciences	.011	.252	.002	.044	.965	.000			
Social sciences	.068	.128	.026	.534	.593	.001			

Note. N = 419.

Table 9. Discipline Predictors of Learning Enhancement Outcome in Service-Learning										
Discipline Predictors	В	SE	β	t	р	R ²				
Arts	.077	.193	.019	.397	.692	.000				
Business	416	.185	110	-2.257	.025	.012				
Computer science	-1.120	.297	137	-2.824	.005	.019				
Education	.509	.215	.115	2.367	.018	.013				
Engineering	.202	.276	.036	.733	.464	.001				
Health sciences	004	.110	002	034	.973	.000				
Humanities	124	.276	022	447	.655	.000				
Life sciences	.035	.188	.009	.188	.851	.000				
Physical sciences	014	.260	003	055	.956	.000				
Social sciences	.145	.131	.054	1.110	.268	.003				

Note. N = 418.

hancement (Table 15).

Predictors That Impacted Student Perceptions

significantly predicted learning enhance- tiveness for students, faculty, and institument perceptions (M = 4.90; F(1,416) = tions. To that end, we analyzed data from 4.286, p < .05). The following tables show 437 students in nine participating Florida the relationship of organizational partner higher education institutions. From the predictors to respondents' perception of predictors we examined, several patterns career enhancement (Table 13), community emerged regarding students' gender, acaengagement (Table 14), and learning en- demic discipline, course model, and organizational partners.

Gender Identity

The existing service-learning literature This study was designed to identify best shows that women are much more likely practices in the development of service- than their male peers to participate in learning courses to ensure maximal effec- service-learning, whether domestic or

Table 10. Course Model Predictors of Career Enhancement Outcome in Service-Learning										
Course Model Predictors	N	В	SE	β	t	р	R ²			
Service-learning requirement is transparent	412	.166	.103	.079	1.612	.108	.006			
Service-learning is required	416	012	.134	005	093	.926	.000			
Service-learning is majority of course grade	414	.280	.121	.130	2.316	.021	.017			
Service-learning is major project	420	045	.161	014	282	.778	.000			
Service-learning is independent study	420	.095	.198	.023	.480	.631	.001			
Service-learning is focus of course	420	.305	.154	.097	1.984	.048	.009			
Service-learning is "fourth credit"	420	.588	.237	.120	2.479	.014	.014			
Service-learning is partial focus of course	420	.084	.104	.039	.807	.420	.002			

-.132

.113

-.057 -1.165

.245

.003

419

Service-learning is small part of course

Table 11. Course Model Predictors of Community Engagement Outcome in Service-Learning										
Course Model Predictors	N	В	SE	β	t	р	R^2			
Service-learning requirement is transparent	415	.155	.101	.076	1.539	.125	.006			
Service-learning is required	414	.013	.130	.005	.102	.919	.000			
Service-learning is majority of course grade	414	.259	.126	.126	2.244	.026	.016			
Service-learning is major project	418	077	.157	024	488	.626	.001			
Service-learning is independent study	418	.096	.199	.024	.484	.629	.001			
Service-learning is focus of course	418	.267	.150	.087	1.780	.076	.008			
Service-learning is "fourth credit"	418	.431	.222	.095	1.942	.050	.009			
Service-learning is partial focus of course	418	.065	.102	.031	.640	.522	.001			
Service-learning is small part of course	417	079	.111	035	711	.478	.001			

.890

-.648

.002

.001

.374

.517

Table 12. Course Model Predictors of Learning Enhancement Outcome in Service-Learning										
Course Model Predictors	N	В	SE	β	t	р	R ²			
Service-learning requirement is transparent	414	.137	.104	.065	1.312	.190	.004			
Service-learning is required	413	015	.134	006	115	.908	.000			
Service-learning is majority of course grade	413	.239	.119	.113	2.000	.046	.013			
Service-learning is major project	417	023	.163	007	142	.887	.000			
Service-learning is independent study	417	.002	.199	.000	.008	.994	.000			
Service-learning is focus of course	417	.236	.155	.075	1.524	.128	.006			
Service-learning is "fourth credit"	417	.459	.229	.098	2.008	.045	.010			

.094

-.074

.105

.115

.044

-.033

417

416

Table 13. Partner Predictors of Career Enhancement Outcome in Service-Learning										
Partner Predictors	В	SE	β	t	р	R ²				
Large national nonprofit	.282	.127	.107	2.211	.028	.012				
Local nonprofit	.120	.102	.057	1.276	.240	.003				
Public school (K-12)	004	.123	002	033	.974	.000				
Club or other organization on college campus	019	.119	008	161	.872	.000				
Office on college campus	087	.141	030	619	.536	.001				
Religious or faith-affiliated group	.080	.163	.024	.489	.625	.001				
Government agency	.219	.198	.054	1.108	.269	.003				
Business	041	.245	008	166	.868	.000				
Private school (K-12)	.204	.294	.034	.694	.488	.001				

Note. N = 421.

Service-learning is partial focus of course

Service-learning is small part of course

Table 14. Partner Predictors of Community Engagement **Outcome in Service-Learning Partner Predictors** β \mathbb{R}^2 В SE t p Large national nonprofit .062 1.268 .206 .157 -.124 .004 Local nonprofit .181 .089 1.823 .069 .008 .099 Public school (K-12) -.010 .122 -.002 -.083 .934 .000 Club or other organization on .116 .016 .038 -.327 .744 .000 college campus Office on college campus -.005 -.108 -.015 .138 .914 .000 Religious or faith-affiliated .070 .161 .663 .024 .436 .000 group Government agency .184 .036 .193 .009 .854 .000 Business -.163 .245 -.033 -.683 .495 .001 Private school (K-12) .097 .298 .016 .746 .000 .324

Note. N = 419.

Table 15. Partner Predictors of Learning Enhancement Outcome in Service-Learning										
Partner Predictors	В	SE	β	t	р	R ²				
Large national nonprofit	.135	.128	.052	1.053	.293	.003				
Local nonprofit	.212	.102	.101	2.070	.039	.010				
Public school (K-12)	.036	.125	.014	.291	.771	.000				
Club or other organization on college campus	123	.120	050	-1.026	.206	.003				
Office on college campus	156	.142	054	-1.097	.273	.003				
Religious or faith-affiliated group	.210	.162	.063	1.294	.196	.004				
Government agency	.010	.199	.003	.051	.959	.000				
Business	038	.247	007	152	.879	.000				
Private school (K-12)	.245	.296	.041	.829	.407	.002				

Note. N = 418.

international, mandatory or optional (Cox outcomes from the experience than those in et al., 2014; Dienhart et al., 2016; Kiely, other majors, such as business. Supporting 2005; Miller & Gonzalez, 2010; Murray et this idea, prior research examining the al., 2015). The current study furthers these syllabi of university business courses that findings by demonstrating that females incorporate service-learning has found that report the greatest gains in career en- only 18% of them focus on civic responsihancement, community engagement, and bility and community involvement in their learning enhancement. The current litera- course objectives, so that service-learning is ture suggests that women spend more time out of alignment with the stated goals of the engaging in activities such as preparing for course (Steiner & Watson, 2006). Students class, meeting instructors' standards, re- likely devalue the experience because of this writing papers, and completing challeng- incongruity. ing assignments than do their male counterparts (Kinzie et al., 2007). Since men Course Model appear to be less engaged in the traditional classroom, it is not surprising that they are less likely to be engaged in academic most gains for students in terms of career work beyond the classroom. Further supporting this argument is the evidence that male students are more likely to have an independent learning style and not participate in class discussions, presentations, and team projects (Drew & Work, 1998; Kinzie et al., 2007). These collaborative experiences more closely mirror the tasks needed for service work and may contribute to our understanding of male reluctance to engage in service-learning.

Academic Disciplines

Our research suggests that academic dis- the course criteria. Several colleges and ciplines may influence service-learning universities are effective at implementing outcomes. Although business majors the fourth-credit option because it enexhibited negative correlations with all ables students to become the initiators of three outcomes, education majors showed the service-learning component; they may positive relationships with the outcomes. introduce other faculty members to the con-Other disciplines, including the sciences, cept and advocate service-learning to their humanities, and arts, demonstrated no instructor and classmates. Such advocacy significant relationship with the outcomes. can yield a fourth-credit option in subse-This correlates with the current literature, quent courses or the redesign of a course to with service-learning apparently receiving integrate service. The fourth-credit option more emphasis in disciplines that focus on model showed significant positive relationqualitative inquiry, in contrast to quantita - ships to community engagement, learning tive disciplines (Butin, 2006). This finding enhancement, and career enhancement. suggests that service-learning courses may be most effective when applied in education classrooms, and that further research is needed to maximize effectiveness for business, sciences, humanities, and arts classes.

learning is not career preparation, it is dicting career enhancement. Students who worth considering that service-learning served at smaller, more local nonprofit opportunities in education most closely organizations, however, demonstrated resemble the work that future teachers will significantly positive learning enhanceperform, and therefore create connections ment outcomes. This finding aligns with that lead to employment. If this is the case, the supposition by Handy and Brudney it would make sense for education students (2007) that larger nonprofit organizations, to have more positive attitudes toward and such as Goodwill Industries, pair volunteers

The "fourth-credit" model showed the enhancement, learning enhancement, and community engagement, followed closely by having the final course grade predicated largely on the service-learning project. Enos and Troppe (1996) described the fourthcredit option as an add-on to a traditional three-credit course whereby students sign a learning contract with the professor to contribute to service-learning components. These components often include engaging in a significant amount of volunteer hours (approximately 40-50 per semester), keeping an active journal, and writing a reflection paper that synthesizes the service to

Organizational Partners

In examining organizational partners as predictors of outcomes, students who were placed in larger national nonprofit organi-Although the primary purpose of service- zations had positive outcomes when prenot as laborers, but as learners of their organization and its mission—concentrating on outcomes rather than outputs (Handy & Brudney, 2007).

Limitations to This Study

Although the results of this research are promising, they should be interpreted in light of the limitations. In this pilot study, the researchers were interested in casting a broad net to capture how the survey instrument was implemented, as well as the results from the study. This approach may have resulted in respondent fatigue. Additionally, this study was completed through a relationship between FLCC and its partnering institutions, which may be not associated with Campus Compact.

This study presented challenges when collecting data, such as communication and accountability. The structure by which we communicated to the Campus Compact institutions prohibited us from speaking directly to those instructors who were implementing the instrument in their servicelearning classes. The researchers spoke only to the administrators, who then reached out to department heads, who then reached out to their faculty members seeking participation. Despite our efforts to be strategic, there was no accountability for which disciplines, classes, or faculty members were associated with the participating students, making it difficult to measure effectiveness within and across the institutions.

Implications for Future Research

On a micro level, focus groups could be conducted in the nine participating FLCC schools to elucidate the data elicited by the "why" questions pertaining to gender identity, academic discipline, course model, and across the board. type of organizational partner. The study was confined to higher education institutions connected to FLCC. The goal was to identify those participating in deep, mean- The purpose of the project was to examine

with paid personnel to produce their desired specifically service-learning, through the output. This arrangement provides a work lens of FLCC as a relatable baseline for the environment with the opportunity for en- study. We recommend performing a similar gaging with staff and the operational side study with Florida higher education instituof an agency, which may be the first expo- tions that are not associated with FLCC to sure to such a setting for many students. compare and contrast the depth and per-Conversely, smaller and/or independent vasiveness of service-learning in the two nonprofit organizations may use different groups to analyze the benefit of infrastrucapproaches when engaging their volunteers: ture provided by an outside entity like FLCC.

> On a macro level, the instrument could be used in comparative analysis studies of other Campus Compact institutions in different states as well as to compare Campus Compact institutions to non-Campus Compact institutions to identify parallels and gaps in community engagement through service-learning at each of the higher education institutions. The study reflected the ways in which colleges and universities implement service-learning coursework at their institutions. Another possibility is comparing the FLCC-affiliated institutions with those who have received the Carnegie Community Engagement Classification to overlay the theories and practices happening at a deeper level.

more community engaged than institutions There is no one definition of service-learning, according to the Carnegie Community Engagement Classification (PLAC, 2015). However, a common element uncovered in this study was active participation with the state's Campus Compact, which supports community engagement endeavors, like service-learning, in higher education. The researchers were able to determine what was "good service-learning" by utilizing a reputable organization, Campus Compact, that connects community engagement to higher education. A future recommendation is to provide an institutional survey and hope that our instrument can be replicated to capture institutional service-learning.

> Further, future research on service-learning will benefit from an examination of individual student academic and career goals, which are likely a large driver of perceptions and outcomes of the projects, rather than focusing on project models and hours. Bringing alignment to the values and developmental needs of the students and the components of the service-learning experience will likely result in positive outcomes

Conclusion

ingful community engagement activities, how volunteer opportunities and service-

learning are shaping educational experi- state and add to existing service-learning ences for students and impacting their literature. Results of the research will communities around them. Participation inform future studies at other Campus from the 437 students at nine Campus Compact institutions. Student perceptions Compact institutions in the present study of service-learning can then be compared provided a complete and accurate assess- to those at other participating Campus ment of students' perceptions of the effect Compact institutions by state, by region, of service-learning in terms of career en- and across the nation and the larger public hancement, connection to community, and scholarship. Additionally, there is an oplearning enhancement as impacted by their portunity for other colleges and universigender identity, academic discipline, course ties to replicate this survey in the future model, and type of organizational partner. to capture the efficacity of institutional

Results from the study will be applied to shape service-learning policies around the

service-learning.



About the Authors

Amanda M. Main, Ph.D., is a lecturer of management at the University of Central Florida. Jarrad D. Plante, Ed.D., CNP is a unit leader with AmeriCorps NCCC FEMA Corps. Melody Bowdon, Ph.D., is a professor of writing and rhetoric at the University of Central Florida.

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