Civic Engagement as a Course-Level Strategy for Integrative Learning

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Abstract

Engaged learning seeks to cultivate integrative approaches that require students to use multiple points of view or approaches in their coursework. Similarly, civically engaged courses ask students to consider public problems that involve multiple stakeholders, institutions, and policies. We are interested in whether courses designed to meet civic engagement goals might also improve student self-assessment of integrative learning at our institution and could serve as a developmental step toward more holistic strategies. To test our hypothesis that student participation in civic engagement would improve student self-assessment of integrative learning, we compared summative student survey scores from students enrolled in similar courses with and without a civic engagement component (n = 275). Boxplot and statistical analysis (unpaired twosample Wilcoxon test) were used to determine if civic engagement pedagogy made any meaningful impact on integrative learning. Our results show strong overall improvement in survey scores after civic engagement courses.

Keywords: curricular assessment, curricular change, interdisciplinary learning, integrative learning, civic engagement, community-engaged learning

n the book Branches From the Same proving integrative learning but lack a good of Sciences, Engineering, and Medicine, ences across their education: cocurricular 2018, p. 1), asserting that multiple bodies and curricular, general education and their of knowledge are connected and should be major, entry-level courses and capstones integrated. Their study examines efforts (e.g., Richards-Schuster et al., 2014). The to provide an integrated model of learning reality of institutional change is that most "that proponents argue will better prepare schools will not be able to implement comstudents for work, life, and citizenship" (p. plex new programs from scratch, but will 1). The Association of American Colleges and Universities (AAC&U) has identified integrative and applied learning as an essential learning outcome, defining integrative learning as "an understanding and Civic engagement in higher education has a disposition that a student builds across increased in visibility and importance, rethe curriculum and co-curriculum, from flecting recent civil rights movements and making simple connections among ideas the effects of changes in civics education in and experiences to synthesizing and trans- K-12. As schools have moved to incorporate ferring learning to new, complex situations civic engagement, many have articulated within and beyond the campus" (AAC&U, civic learning objectives that can be inte-2009). Many schools are interested in im- grated into coursework across disciplines

Tree, the authors quote Albert road map to achieve these goals (DeZure et Einstein: "All religions, arts, and al., 2005). Model programs for integrative sciences are branches from the learning employ holistic strategies that same tree" (National Academies help students incorporate their experineed smaller, simpler stages to bridge their development (Lake et al., 2019). We are proposing civic engagement courses as one such bridge.

with public issues from lenses of citizenship grative learning survey tool to administer to and disciplinary expertise, civic engagement students in civic engagement courses. The may also exemplify integrative learning by survey combined seven questions developed asking students to synthesize their roles, from the reflective and integrative learnskills, and experiences from all parts of ing engagement indicators of the National their lives; however, this possible effect Survey of Student Engagement (NSSE, 2013) of civic engagement on integrative learn- and a published survey with 31 questions ing, even when integrative learning is not used to evaluate ePortfolios as an integraan explicit goal of the course, has not been tive learning approach (McGuinness, 2015). demonstrated.

At our home institution, all students are required to take a course that fulfills civic engagement learning objectives. Here, we define civic engagement to encompass learning that promotes the common good through course knowledge content on public issues and their stakeholders, student reflection on their various civic roles, and Overall, we have found that courses deanalytical skills development to tackle such signed to meet civic engagement goals may complex, ill-structured problems. In re- also help develop and improve students' sponse to this requirement, many different integrative learning, even when integrative departments have developed courses that learning goals are not an explicit part of meet these goals, including Accountancy, course design. Although single courses do Biology, Finance, and Political Science. In not meet all the goals of integrative learneach of these courses, students must engage ing or provide the same outcomes as other with a public problem, explore the forces methods, such as ePortfolios, civic engagethat act on this issue, articulate their own ment courses are one tool among many for roles and responsibilities, and analyze the helping students feel more engaged and challenges to solving the problem. Beyond apply their learning across disciplinary those requirements, courses may also in- boundaries. clude disciplinary content or goals and may use different methods to achieve their learning goals, such as service-learning, problem-based learning, reflection, and so on.

As instructors for civic engagement courses, we felt that there was considerable overlap in other courses and outside the learning between the learning outcomes for civic experience (AAC&U, 2009). Students learn engagement and integrative learning. how to apply learning from a classroom set-Certainly, it is possible for courses to address questions integrating views of multiple disciplinary lenses without being civic learning experiences, and both academicengagement courses. For example, a course on how nature has been defined over time by philosophers and biologists is interdisciplinary, but if these insights are not applied ally connected ways" (Galvin, 2006). to how they affect conservation attitudes and policies, it is not a civically engaged course. Similarly, a purely civic course that focuses on the facts and history of government is unlikely to be integrative. However, due to the emphasis on personal agency and the complex nature of public problems and actors, civic engagement courses require students to incorporate reflection and multiple viewpoints, making them necessarily integrative.

(Matto et al., 2017). When students struggle To test this intuition, we devised an inte-Each survey question asks the students to self-assess their attainment of specific components of integrative learning. Surveys were administered within the first 2 weeks of 16-week semester courses and again in the last 2 weeks of the same courses. Both civic engagement and non-civic engagement courses were surveyed.

Literature Review and **Research Questions**

Integrative learning involves both making connections and using knowledge from across the curriculum to solve problems both ting to different domains such as community service by using skills involving beliefs, and self-interests (Richards-Schuster et al., 2014). Integrative learning is using different strategies to "pursue learning in intention-

One of the key goals of integrative learning activities is to assist students in bringing to the forefront what they have learned and the impact of that learning on their day-to-day interactions and future goals. (Richards-Schuster et al., 2014, p. 133)

The AAC&U sees integrative learning as one

of the most important aspects of higher edu- the impact integrated learning provides for cation and has worked to encourage it across improvement in skills and career success. campuses in the United States. Integrative learning fosters the skills needed to tackle real-world experiences and problems. In general, situations encountered outside the academic setting involve a variety of disciplines and often need varied approaches to solve (e.g., wicked problems; McCune et al., 2021). For example, if one examines the COVID-19 pandemic, the problem involves not only science, but also disciplines involving philosophy, politics, communication, economics, and sociology. Policymakers must consider not just epidemiological factors but also ethics, effective communication, and other social factors in order to craft effective policies.

Integrative learning can be considered an "umbrella term" (Klein, 2005) covering different strategies and activities that work to connect knowledge and the application of knowledge to problems. Students develop insights into different perspectives to riculum (Kinzie, 2013; Richards-Schuster help put together pieces of a larger puzzle (Newell, 1999). "Interdisciplinary studies" is often included as a subset of integrative learning (Klein, 2005) and involves using multiple disciplines to study a topic for a wider breadth of knowledge. Within interdisciplinary knowledge other disciplines help support and connect the main idea, but their status and importance are not equal (Kratochvil, 2013). The main difference between integrative and interdisciplinary is that integrative approaches involve making connections to analyze and synthesize problems outside the academic setting (Huber et Similar to research emphasizing the imal., 2005), whereas interdisciplinary learning tends to be limited to a purely academic setting (Newell, 1999).

Although integrative learning is noted as being important to education and has been discussed since the 1850s (Klein, 2005), definitions and assessment remain problematic. DeZure et al. (2005) noted that many schools still struggle to practice integrative learning across their curriculum in more than a basic way and do so inconsistently. These researchers also identified the lack of accepted metrics for measuring integrated learning as a barrier to improvement. More recently, Luo (2021) expanded the intended outcomes of integrative learning to include cultural competencies such as diverse interaction across college campuses and exposing students to differing points of view. tive learning, studies of civic engagement Conversely, most of these studies agree on in higher education seem to have broader

Other research has assessed strategies of incorporating integrative learning within curriculum and campus communities. For example, Galvin (2006) and Newell (1999) emphasized experiences outside typical classroom courses as important pieces of integrative learning. These studies identified information literacy as a portable skill that students can learn and apply through experiences such as writing across the curriculum, first-year experience programs, service-learning, study abroad, and learning communities. Lake et al. (2019) argued that engaged learning across different departments across years is effective for integrative learning but acknowledged the many challenges regarding workload and institutional support. Other research has focused on the idea of capstone courses and using projects such as ePortfolios to help connect concepts learned across the curet al., 2014; Stubbs et al., 2013). Carpenter (2015) discussed how outreach programs helped improve integrated learning among graduate education students and improved interest in civic engagement. These studies agree that integrative learning helps students apply concepts to experiences they will encounter in work and life outside college. Going one step further, Hancock et al. (2010) provided a case study in how to encourage student engagement by building community partnerships to address real-life applications and problems.

portance of integrative learning, research on civic engagement also draws attention to the centrality of civic engagement as a higher education outcome. The report A Crucible Moment: College Learning and Democracy's Future (National Task Force on Civic Learning and Democratic Engagement, 2012) called for colleges and universities to educate students on engaged citizenship. The report found that civically engaged students are better students, have skills that are employable, and are more socially responsible. Similarly, Halonen and Dunn (2018) argued that incorporating servicelearning, among other strategies, can help students and their parents understand the application and value of their degrees.

Compared to the literature on integra-

based, service-learning, community-based) in the literature regarding the connection. of learning and measuring life-long impact. Holland (2001) discussed the movement of bringing civic engagement into the world of higher education. Overall, she pointed out how engagement can improve student learning and also involve academic institutions within their communities. In addition to Holland's report, other studies also have discussed the importance of measuring the impact of civic engagement and have provided examples of projects from a number of institutions (Campbell, 2009; Egerton, 2002; Liszka et al., 2022; Mehta et al., 2015; Orphan & Hartley, 2021; Westheimer & Kahne, 2004).

However, some research has cast doubt 2021). on the effectiveness of civic engagement. Egerton (2002) went so far as to conclude that higher education did little to change the civic engagement of students and that the relationship of their families and professional occupations had more important connections. Barnett (2020) carefully reviewed work on the impacts of various civic engagement pedagogies (social justice content, service-learning, intergroup dialogue, etc.) to show that they may be less effective in improving learning outcomes for students of color. In particular, she identified how instructors design and deliver their courses, including whether they integrate learning and handle conflict and negative interactions between students, as key in Literature discussing the overlap of civic ensuring these courses benefit students of engagement and integrative learning is color (Barnett, 2020).

Service-learning is often used in colleges to promote civic engagement and student learning. Celio et al. (2011) presented a meta-analysis of how service-learning learning improves skills such as commuimpacts student learning and found that nication, critical thinking, and teamwork service-learning does have a positive effect on civic engagement. Other specific studies reflect similar findings confirming an a framework for student engagement in improvement in civic engagement from higher education, suggesting that a conseservice-learning (Conner & Erickson, 2017; quence of student engagement is citizen-Lichtenstein et al., 2011; Rochford & Hock, ship. New assessment instruments include 2010; Rockenbach et al., 2014). In a longi- both civic engagement and integrative tudinal study, Keen and Hall (2009) found learning domains as separate entities. For that students involved in civic engagement example, Richards-Schuster et al. (2014) and service-learning over 4-year programs discussed using ePortfolios to assess incontinued to be involved after graduation. tegrative learning and civic engagement. Ngai et al. (2019) presented an empirical Their study uses items from the National study to discuss success elements of ser- Survey of Student Engagement (NSSE, 2013) vice-learning and discussed civic learning and the VALUE rubric from AAC&U (2009) to outcomes associated with service-learning. measure civic engagement and integrative

agreement on the goals and outcomes but However, the study did not discuss intefocus more on modalities (e.g., project- grated learning as a benefit and left a gap

> Community-based learning is a category that includes service-learning but may also include courses where students do not perform service directly but work on projects that indirectly serve the community (Kuh, 2008). McClellan et al. (2021) assessed the impact of community-based learning on NSSE indicators, including reflective and integrative learning. Like Barnett (2020), they found that the impact of these civic engagement pedagogies depends on other factors. In their study, arts and science majors were more likely to benefit from community-based learning than professional studies majors (McClellan et al.,

> Other studies on civic engagement discuss how service-learning alone cannot address issues of civic engagement (Bringle, 2017; Morton & Bergbauer, 2015). Bringle (2017) discussed how integrating service-learning with other pedagogies can enhance the overall learning experience. Without specifically mentioning the term "integrative learning," the study discussed how the use of multiple strategies gives students a deeper experience. Our study adds to this previous research by explicitly testing effects of service-learning and non-servicelearning civic engagement on integrative learning.

> minimal and focuses on the effects of integrative learning on citizenship as an outcome. Branches From the Same Tree (National Academies of Sciences, Engineering, and Medicine, 2018) discussed how integrated and can lead to "productive citizenship." Other research (Kahu, 2013) has presented

assess civic engagement and integrative the learning goals specific to civic engageon any impact of civic engagement on the that appropriate texts, activities, and asgrative learning such that civic engagement (Providence College Faculty Senate, 2010), self-assessment.

Given the minimal prior literature regarding civic engagement and integrative learning together, we have developed the following research question:

RQ1: Do courses designed to meet civic engagement goals improve integrative learning survey responses?

Williams Howe et al. (2014) articulated the range of pedagogical tools that can be used in civic engagement courses and how these tools can be developmentally ordered to enable scaffolding skills over time. Our sample included diverse courses each with their own activities, assessments, and time spent on civic engagement. This variety of courses allows us to see if integrative learning happens only as a by-product of particularly high-impact courses that incorporate service-learning or community engagement throughout the course or if courses with much more limited civic engagement content are adequate to improve student selfassessment of integrative learning.

RQ2: Are more active civic engagement courses, i.e., those that incorporate interaction with community members or service-learning, better at improving integrative learning survey responses?

Methods

Our experimental design is a case-study approach utilizing existing student enrollments at our primarily undergraduate, liberal arts college in the northeast United States. Our independent variable is the type of civic engagement pedagogy used in the course, and changes in self-assessed survey responses by students in those courses are the dependent variable.

Our institution has substantial general edu- course in level of content knowledge and cation requirements for graduation, includ- discipline and could be considered broadly ing proficiency in civic engagement. Courses representative of upper level courses in

learning, among other skills. The study that may be taken to fulfill this proficiency presented ePortfolios merely as a way to can be from any discipline but must include learning but did not draw any conclusions ment and provide evidence in the syllabus integrative learning experience. Our study sessments are in place to support these shows how civic engagement across the learning goals. According to the legislation curriculum shares cognitive skills with inte- that created this curriculum requirement instruction improves integrative learning the civic engagement proficiency courses must include the following learning goals:

- Offer students the opportunity to examine, in depth, a public problem or civic issue that concerns them.
- Explore the nature of social, cultur– al, political, and/or environmental forces, institutions, and ideas that influence public problems and their resolution in public life.
- Encourage students to consider their own role in the larger community and their responsibilities within that community. This consideration would include an analysis of citizen obligations to promote key elements of the common good, such as social justice, solidarity, human rights and dignity, participation, peace, subsidiarity, cultural and economic justice, and environmental sustainability.
- Analyze the challenges associated with seeking the common good (e.g., collective decision making, public program implementation, community service provision).

Civic engagement courses have often included service-learning at our institution; however, the current legislation does not require service-learning to fulfill the proficiency.

For our study, course instructors were recruited from traditional (political science) and nontraditional disciplines (accountancy, biology, economics, and finance) for civic engagement, using databases of approved civic engagement courses and current course offerings (Table 1). We also recruited two additional finance course instructors to administer the survey as controls. These two finance course sections did not include any civic engagement learning goals but were similar to the civic engagement finance our institution. Among the civic engage- Our survey tool (see Table 2) was dement courses, there was some variation in veloped by combining survey questions the modality of engagement. The biology from two sources: the National Survey of course we evaluated included significant Student Engagement questions on reflechours of service and weekly reflection. Two tive and integrative learning (NSSE, 2013) of the four sections of the political science and an instrument for evaluating the incourse included community-based learn- tegrative learning outcomes of ePortfolios ing in which the students spent time with (McGuinness, 2015). These sources were community organizations. None of the sur- chosen as validated instruments for asveyed courses included explicit integrative sessing integrative learning outcomes that learning goals. Surveys were administered will allow us to assess our results relative to starting with the authors' own courses (ac- other schools and to a particular pedagogicountancy and biology) in Fall 2016 and cal methodology for fostering integrative grew to include six additional instructors in learning. This instrument and our adminthree other disciplines in Fall 2018.

istration of it to students were approved by our Institutional Review Board as exempt.

Discipline	Title	Primary civic engagement assignment	Survey responses (n)	Civic engagement type*
Accountancy	Taxes and Business Decisions	Tax policy paper: "Research and describe the law, identify the stakeholders, make your opinion on the law, write a communication to a Legislator, and reflect upon your research."	25	CE
Biology	Service Learning in Biology	Service requirement: "Perform 100+ hours of service with a local community non-profit working in a biology-related field."	15	SL
Economics	Environmental & Natural Resource Economics	Term paper: "Examine in depth an important challenge facing the sustainable use of our environmental and natural resources and write a policy position paper explaining their position."	20	CE
Finance	Financial Institutions and Markets	Civic engagement project uses a finance lens "to explore institutions and ideas that influence public problems and their resolution in public life," "to consider your [the student's] role in the larger community and your responsibilities within that community," and "to analyze the challenges associated with seeking the common good."	55	CE
Finance	Managerial Finance	None	99	No CE
Political Science	Politics	Political issue group project: "Class presentation covering research issue in depth including areas of debate, source of disagreement, possible resolutions."	30	CE
Political Science	Politics	Community-based experiences: "You will get an opportunity to learn from these organizations from a variety of different perspectives, including staff, youth, board members and allies. You will also get to see these organizations in action, whether it's visiting program, participating in a workshop, attending a fundraiser, observing a meeting and more!"	31	СОМ

Table 1. Surveyed Courses and Their Civic Engagement Content

Note. *Course civic engagement types are abbreviated as follows: CE = includes civic engagement components; SL = includes service-learning civic engagement; COM = includes community-based civic engagement; No CE = did not include civic engagement as a planned course component.

	NSSE Reflective & Integrative Learning ((2013)	Ö	Civic engagement courses	nt courses		Non-CE courses	rses	2017 NSSE Carnegie peel	2017 NSSE Carnegie peers
	Question text	Response scale	z	Pre-course mean	Post-course mean	Z	Pre-course mean	Post-course mean	1st years' mean	seniors' mean
-	During the current school year, how often have you combined ideas from different courses when completing assignments?	1–4 (never, sometimes, often, very often)	176	2.45	2.93	66	2.35	2.59	2.6	5.0
N	During the current school year, how often have you connected your learning to societal problems or issues?	1–4 (never, sometimes, often, very often)	176	2.52	3.15	66	2.46	2.50	2.6	2.8
n	During the current school year, how often have you included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments?	1-4 (never, sometimes, often, very often)	176	2.44	2.92	66	2.43	2.54	2.6	2.7
4	During the current school year, how often have you examined the strengths and weaknesses of your own views on a topic or issue?	1–4 (never, sometimes, often, very often)	175	2.45	2.96	98	2.56	2.53	5.8	5.9
ນ	During the current school year, how often have you tried to better understand someone else's views by imagining how an issue looks from his or her perspective?	1-4 (never, sometimes, often, very often)	176	2.71	3.09	66	2.73	2.77	5.0	3.0
9	During the current school year, how often have you learned something that changed the way you understand an issue or concept?	1–4 (never, sometimes, often, very often)	176	2.49	2.99	97	2.70	2.69	2.8	3.0
2	During the current school year, how often have you connected ideas from your courses to your prior experiences and knowledge?	1-4 (never, sometimes, often, very often)	175	2.91	3.14	66	2.91	2.96	3.0	3.2
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Table 2. Survey Instrument and Responses

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	McGuinness (2015)		C	Civic engagement courses	nt courses		Non-CE courses	Irses
	Question text	Response scale	z	Pre-course mean	Post-course mean	Z	Pre-course mean	Post-course mean
ω	I can identify my strengths and the challenges (e.g., gaps in my knowledge) l encounter in specific learning or work situations (e.g., in writing a paper or doing research).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.90	4.01	66	3.95	4.09
ര	I make choices to enhance my strengths and address my gaps/challenges in specific work or learning situations (e.g., going to office hours when I am struggling to understand something).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.92	3.96	66	3.77	3.87
10	I can provide evidence (i.e., in an essay, story, or other course assignment) of how I have expressed my strengths and/or taken action to address my challenges in specific situations.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.75	4.05	66	3.70	3.77
	I can articulate specific examples of my personal values and beliefs (e.g., believing in values such as "self-motivation" or "contributing to the well-being of others").	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.19	4.34	66	4.03	4.08
12	I can identify examples of how my personal values and beliefs influence my learning, decisions, and actions (e.g., in the subjects I have chosen to study, or the groups I have chosen to join).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.03	4.26	66	4.02	4.01
13	I can provide evidence (i.e., in a reflective essay, video, or other course assignment) of how my personal values and beliefs have informed my decisions and actions.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.89	4.16	66	3.73	3.84
14	I am aware that my background and social identities (e.g., my race, gender, nationality, social class, religion, sexual orientation) influence my perspective—how I see the world and make sense of things.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.33	4.49	66	4.20	4.14
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	McGuinness (2015)		C	Civic engagement courses	it courses		Non-CE courses	Irses
	Question text	Response scale	z	Pre-course mean	Post-course mean	Z	Pre-course mean	Post-course mean
15	I can identify specific experiences (e.g., moments in my classes or in social situations) where I have learned about the strengths, limitations, and/or biases inherent in my own perspective.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.87	4.16	66	3.75	3.80
16	I can provide evidence (i.e., a reflection essay, presentation, or other course assignment) of the knowledge and insights I have gained regarding the strengths, limitations, and biases within my own perspective.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.67	3.95	66	3.57	3.72
17	I recognize how interacting with people from backgrounds and cultures different from my own enhances my work and learning.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.35	4.44	66	4.27	4.23
18	I actively seek to understand the views of people with backgrounds and perspectives different from my own.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.89	4.11	66	3.97	3.87
19	I can demonstrate (i.e., through stories, reflection essays, or other course assignment) the specific ways in which I have learned from people with backgrounds, cultures, and perspectives different from my own.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.81	4.06	66	3.71	3.60
20	I understand that different types of knowledge/skills are gained from different kinds of experiences (e.g., in general, the knowledge/skills gained from taking an English class are different from the knowledge/skills gained from participating on a sports team).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.36	4.39	66	4.25	4.08
21	I can clearly identify the specific types of knowledge and skills I have gained from different learning and life experiences (e.g., from academic classes, paid work, personal challenges, or leadership opportunities).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.19	4.31	66	4.20	4.04
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Table 2. Continued

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Irses	Post-course mean	3.94	4.08	3.90	3.80	4.08	4.14
Non-CE courses	Pre-course mean	4.00	4.10	3.85	3.80	4.23	4.10
	N	66	66	66	66	66	66
t courses	Post-course mean	4.17	4.36	4.09	4.06	4.26	4.14
Civic engagement courses	Pre-course mean	3.98	4.29	3.93	3.89	4.11	4.01
Ċ	Z	176	176	176	176	176	176
	Response scale	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)
McGuinness (2015)	Question text	I can clearly demonstrate (i.e., through a reflective essay, video, 22 PowerPoint, or other course assignment) the specific types of knowledge and skills I have gained from a wide range of learning and life experiences.	I understand the need to connect knowledge I have gained from one 23 place (e.g., the skills gained from participating on a sports team) to other situations (e.g., working with a group to solve a math or chemistry problem).	I can identify several different examples of how I have applied the knowledge or skills I have gained from one experience (e.g., learning to convey the essence of complex information for a science presentation to other situations (e.g., creating an interesting website for a student organization).	I can provide evidence (i.e., though an essay, video, presentation, or other course assignment) of the specific ways in which I have applied the knowledge/skills I have gained in one experience to other situations or contexts.	²⁶ I can clearly identify the passions, interests, and sources of curiosity that influence my learning, work, and social life.	I have the habit of creating learning and/or professional goals that are informed by my passions, interests, sense of purpose, or sources of curiosity.

Table 2. Continued

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	McGuinness (2015)		Ci	Civic engagement courses	t courses		Non-CE courses	Irses
	Question text	Response scale	z	Pre-course mean	Post-course mean	z	Pre-course mean	Post-course mean
58	I can demonstrate to others (i.e., through a PowerPoint presentation, paper, video, or other course assignment) the knowledge/skills I have gained from pursuing an area of study, or engaging in a series of actions, that reflect my passions, interests, and sources of curiosity.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.89	4.17	66	4.04	3.96
29	I can identify the standards that both myself and others will use to evaluate my learning and/or work (e.g., the criteria a professor or supervisor will use to assess my work as "excellent," "good," or "needs improvement").	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.90	4.14	66	3.87	3.86
30	I often reflect on if and how my work (academic and otherwise) is meeting my own standards and expectations.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.13	4.26	66	4.03	4.04
31	I seek feedback on a regular basis in order to understand if and how my work (academic and otherwise) meets the needs, standards, and/or expectations of others.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.82	3.97	66	3.61	3.67
32	I can demonstrate (i.e., through a reflective essay, feedback from supervisors, or other course assignment) how I have changed my perspective, decisions, or actions as a result of my own reflections or feedback from others.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.73	4.00	66	3.61	3.78
33	I can work with others to identify a problem or need within a specific field, group, organization, or community (e.g., a school or non-profit organizations needing additional funds or resources in order to fulfill their mission).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.07	4.33	66	4.00	4.03
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	McGuinness (2015)		C	Civic engagement courses	nt courses		Non-CE courses	rses
	Question text	Response scale	z	Pre-course mean	Post-course mean	z	Pre-course mean	Post-course mean
34	I can work with others to develop a plan and take action in order to address the needs of a group, organization, or community (e.g., creating a stable funding stream to support a non-profit organization in an ongoing basis).	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.06	4.27	66	4.12	4.04
35	I can provide evidence (through a presentation, video, letters from others, or other course assignment) of how I have worked with others to identify and address a problem, need, or challenge within a group, organization, or community.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	3.85	4.16	66	3.88	3.76
36	I recognize the need to reflect on how my decisions and actions affect others (i.e., asking myself, "Do my decisions contribute to the overall care, well-being, or positive functioning of individuals, groups, organizations, and communities that are a part of my life?").	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.15	4.33	66	4.09	3.99
37	I can identify specific moments or experiences where I have developed or practiced ethical principles (e.g., the principles of equity, justice, fairness, compassion, care) in my decision making and actions.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.20	4.27	66	4.03	3.98
38	I can provide evidence of decisions and actions where I have either developed, or expressed, one or more ethical principles (e.g., equity, justice, fairness, compassion, care) in the context of working with individuals, groups, organizations, or communities that are a part of my life.	1–5 (strongly disagree, disagree, neutral, agree, strongly agree)	176	4.08	4.21	66	3.88	3.94
N	Note. Questions 1–7 are from the National Survey of Student Engagement (NSSE, 2013) and have a scale of 1–4 (never, sometimes, often, very often): Questions 8–38 are from	2013) and have a scale of	1-4 (ne	ever. sometime	es. often. verv o	often): C	Juestions 8–38	are from

McGuinness (2015) and have a scale of 1–5 (*strongly disagree*, *disagree*, *neutral*, *agree*, *strongly agree*). NSSE comparison data are from all peer Carnegie schools administered in 2017 (NSSE, 2017). Similar comparative data is not available for the McGuinness (2015) survey questions; therefore, we removed this final column from the table for questions 8-38. 00) niceril, cu N D N jo D 50 + (never, 5 200 ۵ 0 alla 5 2 -----пуауен 5 202 5 Š

unable to administer surveys any earlier.

Pre- and postcourse survey questions were matched using a nontraceable identifier without. Finally, we used the Kruskalmade of letters from a parent's name and Wallis rank sum test to compare among digits from the student's phone number. In the five disciplines that we surveyed that some cases, near matches were included, included civic engagement. though we tried to be conservative in allowing nonexact matches. Unmatched surveys were excluded from analysis.

The response scale varied between the portions of the survey derived from the NSSE (Kuh et al., 2001) and McGuinness (2015). The NSSE questions had possible responses ment courses. Mean precourse scores indiof never (1), sometimes (2), often (3), or cate that students arrived in our surveyed very often (4); the questions derived from courses with some exposure to integrative McGuinness had a Likert response scale of learning. In some cases, we may not have strongly disagree (1), disagree (2), neutral (3), been able to capture improvement due to agree (4), and strongly agree (5). For each students starting our surveyed courses with administration (pre- and postcourse), we responses at or near the maximum score. report the mean responses for each question However, when looking at mean respons-(Table 2).

The two portions of the survey, the NSSEderived portion and the portion from McGuinness, were considered proxies for assessing integrative learning as a whole for each student. Therefore, rather than focus on individual questions in our analysis, we calculated differences between a student's precourse and postcourse surveys for each Whether we look at the total of our dataset question, then summed across survey or limit our analysis to students in sections questions for each portion of the survey of the same course as our control sections for each student. We then averaged among (finance), civic engagement courses had students within civic engagement course types for these summative measures. The (Table 3 and Figure 1). When we compared resulting two scores (labeled "NSSE" and among political science course sections with "McGuinness") preserve the variation due to differences between students while munity-based versus campus-based), all producing a more continuous metric that students showed similar improvements in gives a conservative holistic assessment of integrative learning (unpaired two-sample impact.

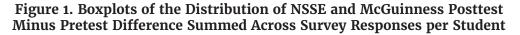
sumptions of normality (NSSE: Shapiro- learning was similar (Kruskal-Wallis test: Wilk test W = 0.990, p-value = 0.048; NSSE chi-square = 2.26, df = 4, p-value = McGuinness: Shapiro–Wilk test W = 0.985, 0.688; McGuinness chi–square = 1.74, df = *p*-value = 0.00653). The unpaired two- 4, *p*-value = 0.783).

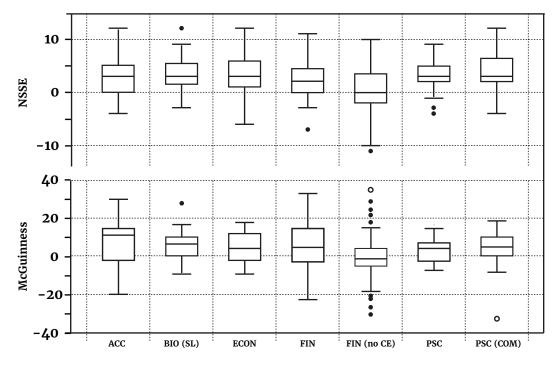
For each course, the survey was adminis- sample Wilcoxon test lets us compare NSSE tered within the first 2 weeks of class and and McGuinness scores among different readministered in the last 2 weeks of class. civic engagement groups without assuming Ideally, surveys would be administered normality of the data. We compared paired before any significant learning has occurred groups of students according to the traits in the course; however, due to constraints of the courses they took: students in civic on class time to devote to the survey and the engagement courses versus those in courses uncertainty of course enrollments during without civic engagement, students enrolled the first weeks of instruction, we were in finance courses with civic engagement versus those without, and students in political science courses with substantial community-based learning versus those

Results

We collected paired surveys from 275 students in 11 sections of six courses from five disciplines: 176 students in civic engagement courses and 99 in non-civic engagees, our students scored similarly to other samples from Providence College and nationally as reported by the NSSE (Table 2). Summative differences in scores per student varied between -11 and +12 for the seven NSSE-derived survey questions and -32 to +35 for the 31 questions from McGuinness (2015; Figure 1).

a positive effect on integrative learning different types of civic engagement (com-Wilcoxon signed rank test, two-tailed: NSSE W = 482, p-value = 0.600; McGuinness W Despite using summative scores rather than = 400, p-value = 0.176). Lastly, looking raw Likert data, the distribution of NSSE among all five disciplines surveyed, the and McGuinness scores did not meet as- effect of civic engagement on integrative





Note. Responses are grouped by discipline with type of civic engagement indicated ("no CE" for courses without civic engagement; course sections with service-learning and community-based learning are marked SL and COM, respectively). Boxes indicate the first quartile (bottom of box), median (line through box), and third quartile (top of box) of the data distribution. Whiskers indicate the most extreme value within 1.5 times the interquartile range (IQR). Closed circles are outliers within 3 × IQR; open circles are extreme outliers beyond 3 × IQR.

	NSSE	McGuinness
All courses with civic engagement vs. courses without	W = 5451.5 <i>p</i> -value = 1.18e-07	W = 5885.5 <i>p</i> -value = 3.96e-06
Finance courses with civic engagement vs. finance courses without	W = 1899.5 <i>p</i> -value = 0.000928	W = 1959.5 p-value = 0.002006

Table 3. Results of Unpaired Two-Sample Wilcoxon Signed Rank Test One-Tailed

Discussion

Our results support the efficacy of civic engagement courses to improve self-assessed integrative learning. Across disciplines and pedagogical approaches, students completing civic engagement courses scored themselves higher in areas of integrative learning: the ability to integrate knowledge across disciplinary boundaries, curricular and extracurricular experiences, and to understand diverse points of view.

The integration of knowledge occurred across a range of disciplines, civic engagement topics, and pedagogical strategies. As a general education requirement at our institution, civic engagement components have been integrated into courses in social science, humanities, STEM, and business. Some courses are introductory and open without prerequisites, whereas others are upper level courses open only to majors. Perhaps surprisingly, we did not see an effect of community-based versus campus-based learning within the political science courses surveyed. This null result may reflect our small sample size of 31 and 30 students, respectively. Alternatively, this outcome may reflect the utility of both approaches to integrated learning goals whether or not they vary in their effectiveness in meeting high-level civic engagement learning goals.

Overall, our study design limits the conclusions that we can reach from this data. We may be helpful in defining this related cogsurveyed courses only at our small, liberal nitive domain. For example, a developmenarts institution in the Northeast, and our tal model similar to Williams Howe et al. conclusions may not be broadly applicable to (2014) might be developed for integrative other schools. Even within our institution, learning. the use of self-evaluations of student skills may have been affected by student biases. Analyses based on self-assessed skills have inherent limitations due to their subjective nature, especially when individual students are the unit of analysis (Pike, 2013). Moreover, as students self-selected courses our results may be an effect of student predispositions or other experiences during the course of the semester. Finally, we did not collect student demographic information, such as race, class year, or major, which may have indicated some of these uncontrolled variables. Future research would be necessary to validate our results, including extension to other institutions, analysis of the effects of student demographics, and validation of self-assessed gains in skills.

Our results are consistent with 2017 NSSE being overlooked or assumed without evi-

scores for our institution and our peer Carnegie Classification schools (Table 2). When we look at courses without civic engagement and precourse surveys, student scores are similar but slightly lower than first-year scores for all surveys at similar schools. Only students at the end of civic engagement courses scored themselves higher than first-year students at peer schools. In fact, postcourse scores for civic engagement courses approach scores for seniors at peer institutions, which may reflect the importance of these courses in producing the gains we see across class years.

On a theoretical level, our findings suggest that the cognitive domains of civic engagement and integrative learning overlap. Although not all civic learning is engaged or integrative and not all integrative learning involves civic engagement, civic engagement, broadly defined to include activities developing personal knowledge and views on public issues to action in the public sphere, can also be listed under the umbrella of integrative learning (Klein, 2005). By encouraging students to consider realworld problems (Huber et al., 2005) and the concerns and views of diverse communities (Luo, 2021), civic engagement meets the goals identified by integrative learning experts. As metrics and outcomes for assessing integrative learning are developed, experts may look to the civic engagement literature for models and approaches that

By measuring the impact of civic engagement courses on integrated learning, we hope to help higher education institutions value, develop, and integrate civic engagement courses as part of efforts to meet integrated learning goals. Civically engaged courses across disciplines and spread throughout a student's college career may solve problems of faculty workload and institutional support for integrative learning (Lake et al., 2019). Of course, civic engagement courses are valuable in their own right as components of developing citizens for our democratic society (Matto et al., 2017); however, with this research we hope to emphasize the integrated learning dimension of civically engaged courses that may not be given the attention it deserves through

with civic engagement research that has ther develop through capstone work and 2021). However, critiques of civic engage- learning outcomes and form a developmenment as not always effective across stu- tal progression of increasing mastery. dent identities (Barnett, 2020) and majors (McClellan et al., 2021) may also apply to the integrative learning outcomes of these courses.

civic engagement courses are sufficient to multiple benefits beyond the direct learnproduce integrated learning. In the future, ing outcomes articulated in the legislation we will compare the impact of civic engage- that established the requirement. Currently, ment courses to other strategies and assess departments across schools and disciplines learning outcomes directly. With the adop- offer civic engagement courses that intetion of ePortfolios in some programs at our grate disciplinary ways of knowing with institution, we are interested in designing real-world questions of public concern, a more rigorous study that can assess the offering students rich integrated learning impacts of these two methods in isolation experiences. As we grow new programs and combination.

To meet integrative learning goals, institutions have employed many different strategies (Huber et al., 2005) beyond pedagogical approaches within specific courses. By es- Although our results are preliminary in that tablishing the efficacy of civic engagement they are limited to our institution, they courses at improving self-assessments of suggest a new area for civic engagement integrative learning goals, our research and integrative learning researchers in exsupports offering civic engagement courses ploring possible overlaps of these cognitive as an early stage of developing more holis- domains, a pathway for institutions to grow tic, campuswide strategies for integrative integrative learning organizationally and learning. For example, a strategy for grow- developmentally for students, and increased ing integrated learning might progress from incentives for faculty and departments to extracurricular civic experiences and civic devote time and resources in developing engagement in general education courses, civically engaged courses.

dence. Our results are broadly consistent to civic engagement in the major, and furnoted integrative learning as an outcome ePortfolio production. Each piece of such (e.g., Liszka et al., 2022; McClellan et al., a strategy would contribute to important

Conclusion

At our institution, the requirement for all graduates to complete a course that meets Of course, we are not arguing that single civic engagement learning goals has had for first-year experiences and signature work, we hope to weave integrated learning throughout our students' years at our institution and beyond.

Author Note

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