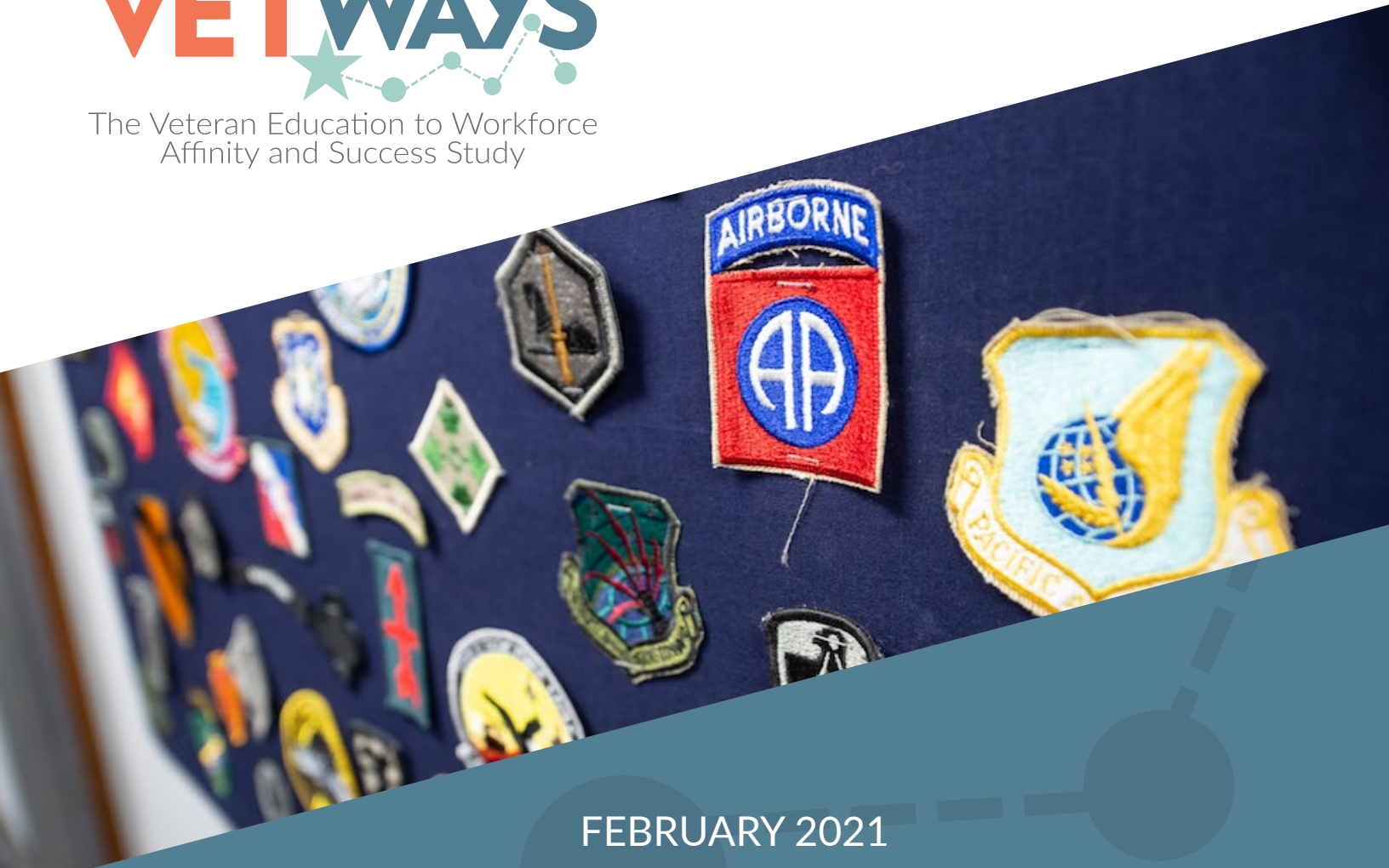




The Veteran Education to Workforce
Affinity and Success Study



FEBRUARY 2021

DATA REPORT

Student Military Service Members
and Veterans in Five Wisconsin
Universities: Phase One Research
Findings from the Veteran
Education to Workforce Affinity
and Success Study

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SUMMARY

This report contains findings from a research study focused on undergraduate student military service members and veterans (SSM/Vs) at five University of Wisconsin (UW) System universities: UW–Green Bay, UW–Madison, UW–Milwaukee, UW–Oshkosh, and UW–Stout. While these talented students are poised to expand and strengthen the twenty-first century workforce, research suggests that they face a number of social obstacles in college. The Veteran Education to Workforce Affinity and Success Study (VETWAYS), a three-year National Science Foundation-supported project (Project Number 1920482), therefore focuses on two objectives:

(1) Better understand SSM/V social support networks—or relationships that provide assistance, advice, and camaraderie shown to help students succeed—as well as how these networks influence students as they move through college into careers.

(2) Provide data-supported insights for student service professionals and other stakeholders that can help improve SSM/Vs' academic experiences and workforce outcomes.

During Phase One of this study, reported here, online surveys ($n=623$) and interviews ($n=54$) were administered to SSM/Vs at these five universities between February and May of 2020. The survey and interview questions focused on each student's demographics; high school and military experiences; university life; career plans; thoughts on changes associated with COVID-19, which forced all classes to go online in mid-March; and social support networks. Key findings on these themes from the sample are:

Sample Demographics

- The Wisconsin SSM/V survey sample is similar to the SSM/V population around the country. As compared with traditional students, the sample is predominantly male, older, more often married with children or dependents, and composed of more first-generation, transfer, and physically and cognitively impaired students.
- Unlike the national SSM/V population, this sample is not composed of a higher percentage of students of color than the traditional college student population. Instead, students of color make up a similar percentage of the SSM/V sample (19%) as they do the population of students in the UW System as a whole (17%).

High School and Military Experiences

- In interviews, students said they served in the military because family members or close friends had served, because they considered the military to be a calling, and because the military would help pay for college tuition.
- More than half of the survey sample identified as discharged/retired veterans, 43% were reserve- and national guard-service members, and 2% were on active duty; 42% of the sample reported receiving combat pay during their military service.

University Life

- Interviewees said “camaraderie” and “structure” were the two aspects of military life most missing from university life.
- On average, SSM/Vs reported a moderate sense of belonging on their campuses (3.0 on a 5-point scale); students reported moderate academic integration on their campuses, including social contact with faculty, advisors, and other students (1.7 on a 3-point scale).

Career Plans

- A plurality of SSM/Vs in the sample are planning on entering business careers; almost three-quarters of students said their college major was “closely” related to their planned career.
- SSM/Vs said work/life balance was their most important career consideration, while their future career’s connection to their military occupation was their least important consideration.

COVID-19

- Large majorities of SSM/Vs across the universities said their internet and computer access and housing arrangements would be the same or better after pandemic-related university closures in March.
- Significant proportions of SSM/Vs, however, reported that they believed other aspects of their life would be *worse or much worse* after closures, including their access to food (23%), financial stability (37%) and access to childcare (38%).
- Importantly, 43% of SSM/Vs surveyed said they thought their level of social support would be worse or much worse due to campus closures in the spring of 2020.

Social Support Networks

- Research indicates that strong social support networks are linked to improved academic experiences for SSM/Vs. Our survey data on the social support networks of SSM/Vs show students had about four people with whom they discussed personal matters and five people with whom they discussed academic/career matters, meaning they often discussed both sets of issues with same core group of people.
- Students also reported on average less than one university educator and less than one fellow student in their social support networks.

Connecting Student Attributes to Important Outcomes

- Statistical tests show that all else being equal, SSM/Vs with larger social support networks, comprised of more university educators and students, have a greater sense of campus belonging, higher academic integration, and use their college's veteran lounge more often.
- Students with closer relationships to members of their social support networks, however, have lower levels of academic integration and are less likely to hang out in their college's veteran lounge.

Recommendations

1. SSM/V-focused university orientation sessions for incoming SSM/Vs can help build social support networks and alleviate challenges students face as they enter the university.
2. Valuable connections to other SSM/Vs on campus can be facilitated through planned events, a veteran lounge area, and the advisory or organizational support of SSM/V student organizations.
3. Encouraging SSM/Vs' connections to nonveteran students and educators, as well as "Green Zone" trainings locally, can improve overall SSM/V campus and community integration.
4. Following through on these recommendations will require increased funding and support for campus veteran service staff due to already-substantial demands related to certification of GI Bill and other education benefits.

Introduction and Background

Student military service members and veterans (SSM/Vs) are one of the fastest growing groups of nontraditional students in American colleges and universities (e.g., American Council on Education, 2014). This development can both strengthen and diversify the American university and workforce. Aside from their advanced technical, problem-solving, and teamwork skills, SSM/Vs nationwide are proportionally older, more racially and ethnically diverse, and more often first-generation students from low-income backgrounds than traditional college students (Barry et al., 2012; NSSE, 2010).

Recent studies suggest student military service members or veteran (SSM/V) experiences improve with strong *social support networks*—relationships that provide students with assistance, advice, and camaraderie.

SSM/V enrollment expansion, however, comes with challenges. Transitions between military and civilian life, service-related impairments, alienation from students and staff, and the complicated bureaucratic maze associated with state and federal benefits all present SSM/V with difficulties that many postsecondary educators do not fully understand (DiRamio et al., 2008). These issues are especially relevant in Wisconsin, a state without a large military presence where service members and veterans have lower college graduation rates than peers nationally (VA, 2017).

Greater levels of SSM/V success are achievable. In particular, recent studies suggest that SSM/V experiences improve with strong *social support networks*—groups of relationships that provide assistance, advice, and camaraderie (Livingston et al., 2011; Rumann & Hamrick, 2010). However, little research has deeply investigated such networks nor how they could be a valuable leverage point for improving SSM/V outcomes. Further, despite calls for research that will follow these students over time to establish what factors predict success, little work has used a longitudinal approach to trace SSM/V social support and persistence along workforce pathways.

Purpose

The **Veteran Education to Workforce Affinity and Success Study (VETWAYS)** is a three-year National Science Foundation-funded research project focusing on these issues. Using two rounds of online surveys and interviews that follow SSM/Vs through University of Wisconsin (UW) System universities, the project explores the role social support plays in helping military-affiliated students finish college and enter gratifying careers. Our mission is twofold:

- (1) Better understand SSM/V social support networks as well as how these networks influence students as they move through college into careers, and
- (2) Provide data-supported insights for student service professionals, administrators, employers, and policymakers that strive to improve SSM/V academic experiences and workforce outcomes.

Methods

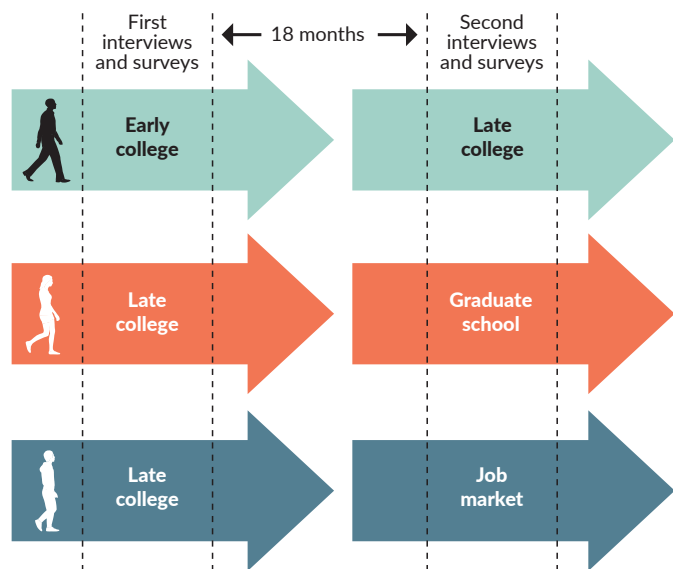
To meet these objectives, VETWAYS is conducting a mixed-methods study of SSM/Vs in five UW System universities chosen for their demographic and geographic diversity: UW–Green Bay, UW–Madison, UW–Milwaukee, UW–Oshkosh, and UW–Stout. A more detailed description of our research methods is provided in Appendix I.

Through two study phases, the project follows undergraduate SSM/Vs in these institutions as they navigate different education-to-career pathways (Figure 1). During Phase One, reported here, the study team surveyed 623 SSM/Vs across all five universities. Online survey questions were designed to record SSM/V demographics, educational experiences, academic and career pathways, and social support network characteristics. The team also conducted semi-structured interviews over Zoom or Skype with a subset of 54 SSM/V volunteers. Interview questions were meant to explore student perspectives on career pathways and support networks during one-hour sessions with each student. Surveys and interviews were all conducted between February and May 2020. Phase Two of this study, which will follow up with these participants, will take place in the fall of 2021.

In this initial report, we use descriptive and associative statistical methods as well as simple inductive coding to provide quantitative and qualitative findings from survey ($n=623$) and interview ($n=54$) responses. Please note that this study's survey sample is self-selected and represents 31% of the total SSM/V undergraduate population across the five universities. Still, these data are useful to better understand SSM/V characteristics and behaviors that are usually not available in reports based on admissions, registrar, or financial aid information.

Survey and interview findings are presented thematically below according to eight categories: Sample Demographics, High School and Military Experiences, University Life, Career Plans, COVID-19—which forced campuses to close and all classes to go online in March 2020—Social Support Networks, Connecting Student Attributes to Important Outcomes, and Recommendations.

Figure 1. Three focal career pathways



During Phase One of this study the study team surveyed 623 SSM/Vs at UW–Green Bay, UW–Madison, UW–Milwaukee, UW–Oshkosh, and UW–Stout. The team also conducted interviews with a subset of 54 of these SSM/V volunteers.

Findings

Sample Demographics

Six hundred and twenty-three undergraduate SSM/Vs participated in the VETWAYS online survey, representing a 31% response rate. Fifty-four SSM/Vs were interviewed for this study, almost all of whom major in science, technology, engineering, mathematics, or medical (STEMM) fields. Sample statistics are presented in Table 1. Please note that STEMM majors are italicized.

Table 1. Descriptive statistics for survey (n=623) and interview (n=54) sample

Measure	Survey		Interview	
	N	%	N	%
Gender				
Female	151	24.2	18	33.3
Male	466	74.8	35	64.8
Nonbinary	5	0.8	1	1.9
Race/Ethnicity ¹				
American Indian or Alaska Native	20	3.2	4	7.4
Asian or Asian American	41	6.6	0	0.0
Black or African American	25	4.0	8	14.8
Hispanic or Latino	42	6.8	1	1.9
Native Hawaiian or Pacific Islander	8	1.3	1	1.9
White or Caucasian	535	86.2	46	85.2
<i>White Students</i>	504	81.2	42	77.8
<i>Students of Color</i>	117	18.8	12	22.2
Undergraduate Major				
Arts and Humanities	48	7.7	0	0.0
<i>Biological and Life Science</i>	46	7.4	7	13.0
Business	55	8.8	7	13.0
Education	32	5.1	0	0.0
<i>Engineering</i>	77	12.4	14	25.9
Finance	85	13.6	0	0.0
<i>Health</i>	76	12.2	12	22.2

¹ "Students of Color" include students who identified as mixed race or as American Indian or Alaska Native, Asian or Asian American, Black or African American, Hispanic or Latino, or Native Hawaiian or Pacific Islander. "White Students" include students who only identified as White or Caucasian.

Measure	Survey		Interview	
	N	%	N	%
<i>Math and Computer Science</i>	47	7.5	9	16.7
<i>Physical Science</i>	13	2.1	4	7.4
<i>Social Science</i>	74	11.9	1	1.9
Other (Architecture, Criminal Justice, etc.)	62	10.0	0	0.0
Undeclared	8	1.3	0	0.0
Transfer Students	303	48.6	28	51.9
Service Status				
Discharged or Retired Veteran	342	54.9	32	59.3
On Active Duty	15	2.4	1	1.9
In Reserves or National Guard	266	42.7	21	38.9
First Generation Students ²	205	32.9	15	27.8
Disability Status				
Cognitive Impairment	60	9.6	6	11.1
Mobility Impairment	70	11.2	8	14.8
Sensory Impairment	36	5.8	4	7.4
<i>Impaired Students</i>	126	20.2	14	25.9
Institution				
UW–Green Bay	115	18.5	9	16.7
UW–Madison	113	18.1	14	25.9
UW–Milwaukee	147	23.6	13	24.1
UW–Oshkosh	106	17.0	6	11.1
UW–Stout	142	22.8	12	22.2
Mean Age	29.6 (SD ³ = 9.3)		30.5 (SD= 9.3)	

² “First Generation” students are students reporting that their parental guardians have not obtained an associate’s level college degree or above.

³ Standard deviation (SD) is a measure of the amount of variation within a set of values. A low SD indicates that the values tend to be clustered closer to their mean. A high SD indicates that the values are spread out more widely.

Notable findings from the survey sample include:

- The SSM/V survey sample is similar to the SSM/V population around the country as a whole. As compared to traditional students, the sample is predominantly male (75%); older (a mean age of 30); more often married (30%) with children and/or dependents (26%); and composed of more first generation (33%), transfer (49%), and physically and cognitively impaired students (20%).
- Unlike the national SSM/V population, however, this sample is not composed of a higher percentage of students of color than the traditional college student population. Instead, students of color make up a broadly similar proportion of the SSM/V sample (19%) as they do the UW System student population as a whole (17%).
- A plurality of SSM/Vs in the sample (14%) are in finance majors; 12% are in an engineering major, 12% are in a health major, and 12% are in social science majors.
- About 53% of SSM/Vs in the sample are in STEMM majors.

As compared to traditional students, the sample is predominantly male, older, more often married with children or dependents, and composed of more first generation, transfer, and physically and cognitively impaired students.

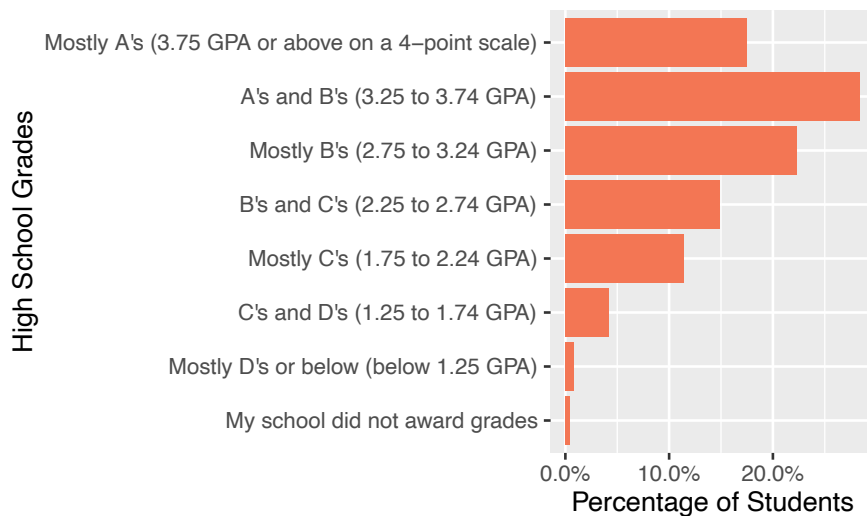
High School and Military Experiences

Several questions on the online survey and in the interviews asked students about their high school and military experiences as well as their transitions into and out of formal education. Here, we present findings on SSM/V high school grade point averages (GPA), reasons for entering the military after high school, time in the service and between high school and college, military service status, and military occupational specialties.

High School

High school grades are often a reliable indicator of students' success in college. When students were asked on the survey about their GPAs during high school, the majority reported receiving A's and B's (a 3.25 to 3.74 GPA on a 4-point scale) (Figure 2).

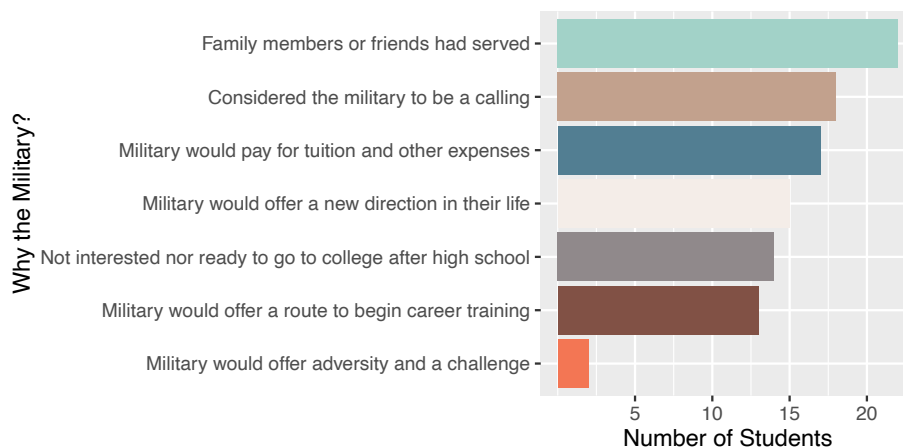
Figure 2. Survey-reported high school grades of SSM/Vs (n=623)



Why the Military?

During interviews, we asked each student interviewee why they decided to go into the service, typically after high school. Interviewees told us that it was a combination of factors, including that family members had served and that the military service would provide college tuition. Results are displayed in Figure 3.

Figure 3. Interview-reported reasons for entering the military among SSM/Vs (n=54)



Speaking to “new directions,” for example, students told us they saw military service as a special opportunity to change their lives and do something different, one that could help them branch out and possibly, someday, pave the way for a college education. One UW–Green Bay student explained:

“Up around here the phrase is, ‘You can always work at the shipyard!’ And I didn’t want to end up in a shipyard, so I joined the military...I wanted to get some culture, I wanted to gain some opportunities, I wanted an education.” -UW–Green Bay student

I got in the military mostly just because up around here the phrase is, “You can always work at the shipyard.” And I didn’t want to end up in a shipyard, so I’m going to do something about that. So I joined the military...I wanted to get some culture, I wanted to gain some opportunities, I wanted an education, so I did it.

Another student, from UW–Stout, explained that after high school he had been interested in an IT career, but the local community college program had a waiting list that would not allow him to begin anytime soon. Working different jobs in his small hometown ultimately led him to the service:

Out of high school, really small town, I wanted to apply for the program at the local tech college, but there was a two-year waiting list. So I had several different jobs and what not, and I just kind of decided not to wait for another year to get into that, and I just went into the service instead. They offered the IT position, which is really what I wanted to do, I said I’ll take that.

Often, students spoke to several of these factors simultaneously. One UW–Milwaukee student explained that her parents’ military background, her family home’s organization- and disciplinary-mindedness, and her own fascination with the military all served to lead her to enlisting:

I grew up in a military house, so everything was about discipline. You get the job done. We had rules we had to follow and it was very organized. So I still have that mentality...things go a certain way, you have rules to follow. And I was doing research on the military, just digging into that, and I was just amazed by how the military works.

Military Transitions

About 70% of U.S. college-bound high school graduates enroll in college a few months after graduation (NCES, 2020). In Table 2, we see that members of the survey sample have on average five years of military service, with an average of seven years between high school graduation and college enrollment. Further, survey respondents also on average had 0.4 years between military discharge or retirement and college enrollment.

Table 2. Survey-reported mean number of years in military service and to college enrollment of SSM/Vs

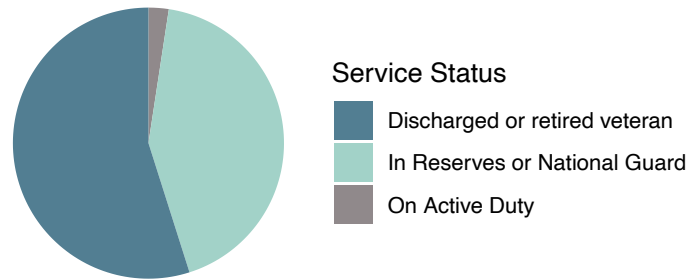
	Mean Score	N
Time of military service	4.9 (SD = 2.9)	542
Time between high school graduation and starting college	6.8 (SD = 6.5)	563
Time between military discharge and starting college	0.4 (SD = 4.4)	564

Note: Students who served in the military before the year 2001, graduated from high school before 1990, and started college before 2010 are not included in this analysis.

Military Service

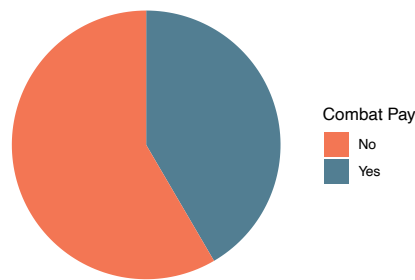
Fifty-five percent of the SSM/V survey sample identified as discharged/retired veterans, 43% were reserve- and national guard-service members, and 2% were on active duty but currently enrolled when they took the survey (Figure 4).

Figure 4. Survey-reported service status of SSM/Vs



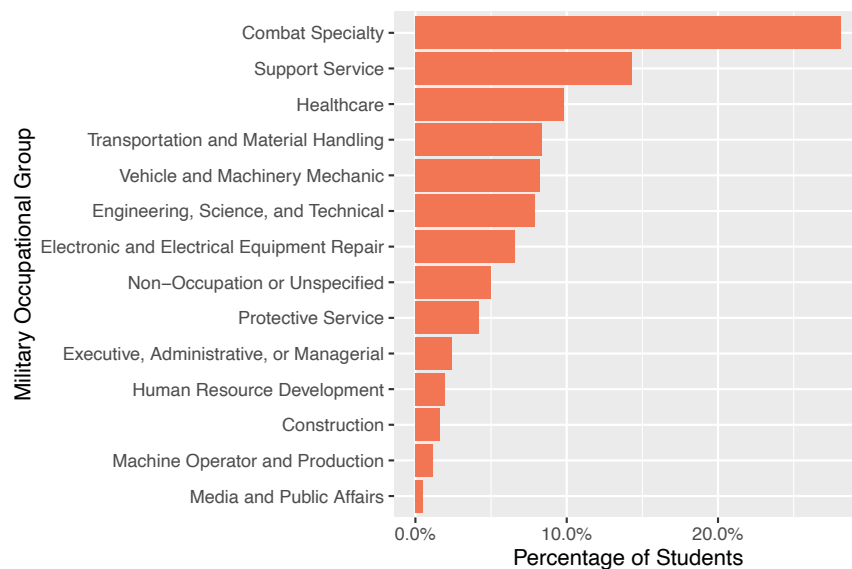
Forty-two percent of the survey sample reported receiving *combat pay*—defined as income earned while stationed in a designated combat zone—at some point during their military service (Figure 5).

Figure 5. Survey-reported combat pay of SSM/Vs



On the survey, students reported holding various military occupations while they were in the service. A plurality of students (28%) reported a combat specialty as their primary occupational group during their military service, while 14% worked in various support service capacities (Figure 6).

Figure 6. Survey-reported military occupations of SSM/Vs in UW–Green Bay and peer universities



University Life

Other survey and interview questions asked students about their university experiences, including the transition between college and military life, their student enrollment status and first-year grades, their academic integration, and their feelings of campus belonging.

Military to University

To better understand transitions into university from the military, student interviewees were asked to list specific facets of military life that they thought were missing from their college lives. Results, which display the top ten terms listed by SSM/Vs by how many students mentioned them, are displayed in Table 3. Interview and analysis methods are described in more detail in Appendix I.

Table 3. Interview-reported aspects of military culture missing from university

Term	N	%
Camaraderie	33	61.1
Structure	25	46.3
Self-discipline	15	27.8
Accountability	15	27.8
Common purpose	13	24.1
Respect	13	24.1
Collaboration	9	16.7
Standardization	8	14.8
Physical training	8	14.8
Drive	7	13.0

In Figure 7, we see a “word cloud” of the aspects of military life SSM/V interviewees said were missing from university in this exercise. The more students who mentioned a term, the larger that term appears in the diagram.

In particular, results show that students perceive an absence of *camaraderie* and *structure* in university life (see Benbow, 2020).

Figure 7. Word cloud of facets of military culture missing from the university



With *camaraderie*, students said the missing family atmosphere, trust, and deeper relationships of their military experience were an important influence on their university experience. One UW–Oshkosh student explained it this way:

“In the military you have to rely on your battle buddy to watch your back, and you watch your battle buddy’s back. I don’t have necessarily a true peer group in college.” -UW–Oshkosh student

In the military you’re in a very tight-knit group that has to work together. You have to rely on your battle buddy to watch your back, and you watch your battle buddy’s back. So there is that sense of connection...that’s one of the more challenging aspects of going back to school. I don’t have necessarily a true peer group in college. There’s only a handful of people my age going back to school, and I come across maybe one or two of them a week.

The comparative lack of *structure* in university life, where myriad decisions both big and small are left to students, could also make for a difficult transition. A UW–Milwaukee told us,

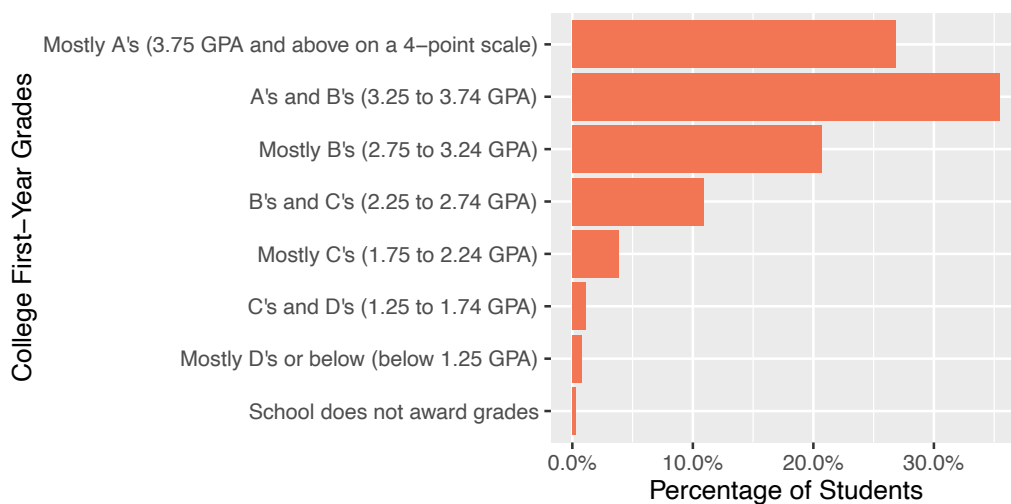
Coming from basic training and tech school, those environments are extremely structured, and literally every minute of your day is decided for you. Something that I struggled with when I came back to college was figuring out how to balance everything that the life demanded from me and creating my own schedule again...It’s kind of a shock. You don’t know what to do with yourself.

University Experiences and Behavior

Survey participants reported a number of other specifics about university.

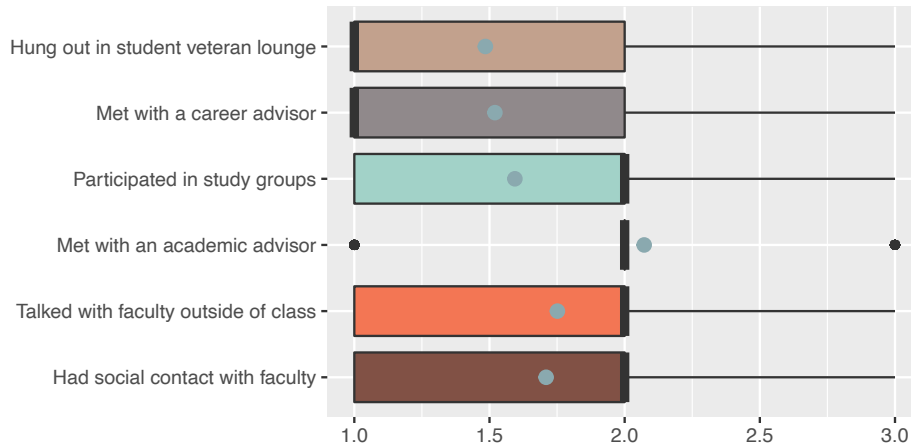
First-year GPA. Studies suggest a student’s first year college grades associate with their persistence to a degree (e.g., Crisp et al., 2009). Here, SSM/Vs reported receiving mostly A’s (3.75 GPA or higher) or A’s and B’s during their first full year at their current university (Figure 8).

Figure 8. Survey-reported first-year college grades of SSM/Vs



Academic integration. “Academic integration,” including social contact with faculty, participation in student study groups, and meeting with academic and career counselors, has been shown to be an important indicator of student academic engagement and, ultimately, college persistence (e.g., Pascarella & Terenzini, 1991). Our survey asked students to report on how often they engaged in these activities as well as how often they hung out at their university’s student veteran lounge, often an important facet of SSM/V life on campus. Overall, SSM/Vs reported moderate academic integration on campus (1.7 on a 3-point scale). Results for each academic integration item are displayed in Figure 9.

Figure 9. Survey-reported academic integration of SSM/Vs

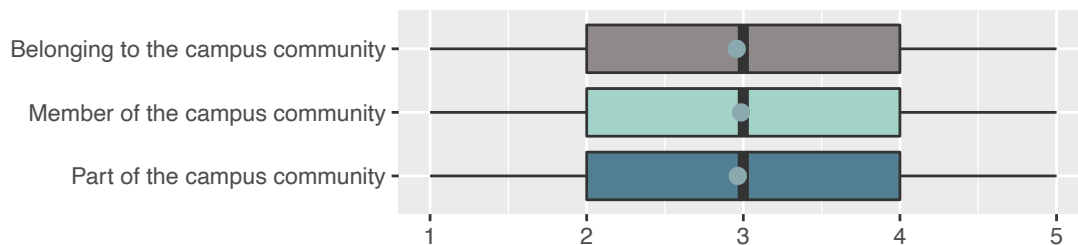


Note. The green dots indicate the means and the thick black lines indicate the medians for each sample (1 = “Never,” 2 = “Sometimes,” 3 = “Often”).

Feelings of campus belonging. It is well established that a student’s sense of campus belonging—the feeling that they see themselves as a member of their campus community—is important to college success (Hurtado & Carter, 1997). On average, SSM/Vs reported a moderate sense of belonging on campus (3.0 on a 5-point scale). Results are displayed in Figure 10.

On average, SSM/Vs reported moderate academic integration (1.7 on a 3-point scale) and a moderate sense of belonging on campus (3.0 on a 5-point scale).

Figure 10. Survey-reported SSM/V feeling of campus belonging



Note. The green dots indicate the means and the thick black lines indicate the medians (1 = “Strongly disagree,” 2 = “Disagree,” 3 = “Neither agree nor disagree,” 4 = “Agree,” 5 = “Strongly agree”). “Disagree,” 3 = “Neither agree nor disagree,” 4 = “Agree,” 5 = “Strongly agree”.

In interviews, we asked students to explain what aspects of their college experiences influenced their sense of belonging as well (see Benbow & Lee, 2020). Students brought up several factors, displayed in Table 4.

Table 4. Factors influencing campus belonging for interviewees

Theme	N	Description
Student friendships	14	Close relationships with other university students offering a connection to the social and academic life of their university through companionship, study partnerships, and/or the opportunity to relax
Familiar faces	13	A feeling of positively recognizing, and/or being recognized by, other members of the campus community
Faculty care	12	Expressed attention, concern, guidance, interest, and/or empathy from university instructors (not including support from veteran coordinators)
Campus involvement	11	Clubs, work, or other extracurricular involvement taking place on campus
Timing	11	Time as a social support factor, either regarding how long one has been at the university, the (larger, more impersonal) size of one's classes, or missing classes or semesters because of military responsibilities
Veteran support	10	Perceived university encouragement, inclusion, and advocacy specifically for SSM/Vs at the university, communicated through policies and/or service member and veteran-specific support staff
Home/heritage	4	University has been a social focus for years, through athletic fandom, proximity to home, and/or family member alumni status
Academics	2	Broader teaching and learning approach in student program or institution (e.g., hands-on, theoretical), which may or may not make SSM/Vs feel like they fit in

Note: Themes are listed from top to bottom by number of interviewees mentioning each theme.

The idea that SSM/Vs' sense of belonging was linked to whether or not they had developed *student friendships* on campus was an important theme across all interviews, underlining previous research (Heller et al., 2011). Interviewees said such friendships offered a direct connection to the social and academic life of their university as well as camaraderie, study partnerships, and the opportunity to relax. One UW–Madison student told us, for instance, that not having close student friendships and, by extension, not belonging, was part of being a commuter of a different age.

“For a lot of my commuting peers, we go to school and that’s our job. Then, we go home.” -UW–Madison student

Not living on campus, being older, it leads to feeling like you're the odd person out. Socially, I wouldn't say I really feel that big of a part of the school. For a lot of my [commuting] peers, we go to school and that's our job. Then, we go home. Whereas if we lived on campus, well, we'd probably be hanging out with friends, drinking beers, doing homework all the time together.

Interviewees across the study also often said that they felt a closer connection to their campus because of how much certain faculty or staff members seemed to care for them and their educational success, a theme we call faculty care. One UW–Green Bay student explained

My advisor, she sends so much information. She'll go like, “Oh, I noticed your grades are good, maybe you'd be interested in this program.” I mean you feel like do belong because you know people are looking out for opportunities, for scholarship opportunities and things for you. I'm aware of things that are possibilities out there because of my advisor.

Career Plans

VETWAYS is designed, in part, to understand how student social and academic experiences in college influence SSM/V career trajectories. Several questions on the online survey asked students to report on their career plans and considerations. Notable findings include:

- A plurality of SSM/Vs in the sample (21%) are planning on entering business careers; 18% are planning on medical/health care careers while 16% are planning on science and engineering occupations (Figure 11)
- When asked the importance of different career considerations on a 1 to 5 point scale, SSM/Vs said work/life balance was of primary importance (4.3), followed by the availability of jobs (4.2) and income potential (4.0); SSM/Vs said their career's connection to their military occupation was the least important consideration (Figure 12)
- A large majority of SSM/Vs (74%) said their university major closely related to their planned career; 21% said their major was only somewhat related and 4% said their major was not related to their planned career (Figure 13)

Figure 11. Survey-reported probable career fields of SSM/Vs

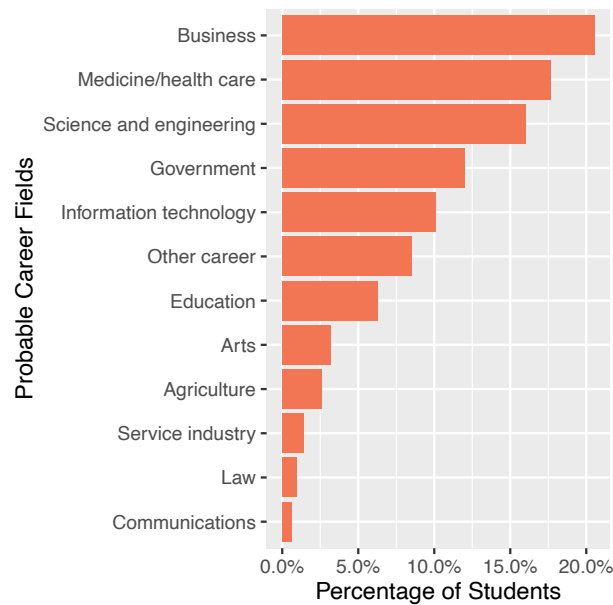
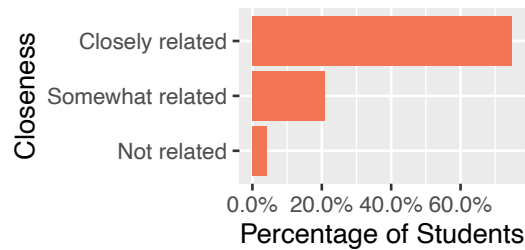


Figure 12. Survey-reported career considerations of SSM/Vs



Note. The green dots indicate the means and the thick black lines indicate the medians (1 = "Not at all important," 2 = "Of little importance," 3 = "Moderately important," 4 = "Important," 5 = "Very important").

Figure 13. Survey-reported closeness between major and planned career of SSM/Vs



COVID-19

As the online survey for this study was being distributed in March 2020, campuses across UW System universities unexpectedly closed and classes went fully online due to the COVID-19 pandemic.

In response, VETWAYS added two sets of questions to the survey, one set asking about student employment changes and one asking students how they believed certain aspects of their life would change—specifically whether they would be much better, better, about the same, worse, or much worse—due to the campus closures and new virtual educational environment. Figures 14 and 15 display results for all SSM/Vs who completed COVID-19 survey questions ($n=309$).⁴

Figure 14. Survey-reported COVID-19 impact on SSM/V employment

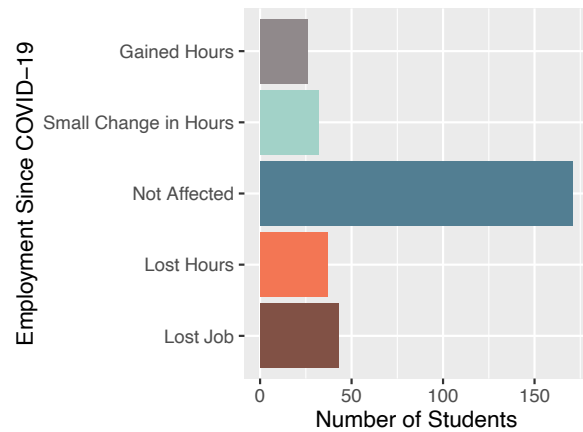
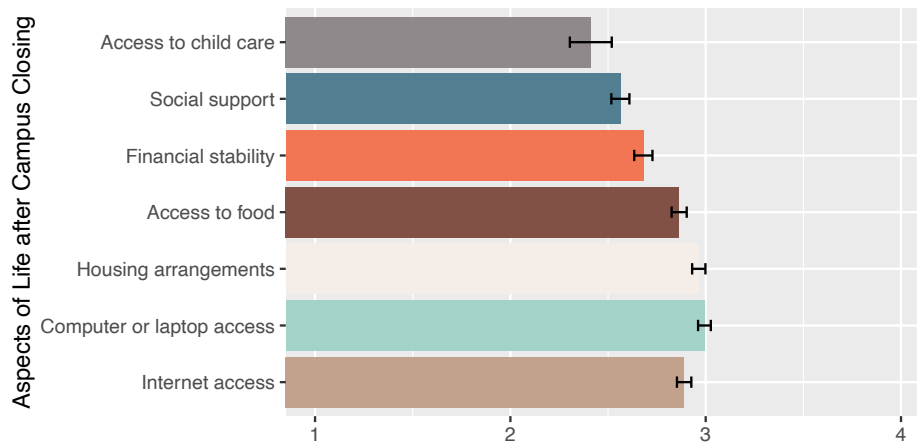


Figure 15. Survey-reported SSM/V feelings on aspects of life after COVID-19 campus closures



Note. Lines indicate the standard deviation of student responses from the mean (1 = "Much worse," 2 = "Worse," 3 = "About the same," 4 = "Better," 5 = "Much better").

⁴ Because of the timing of survey administration in the spring of 2020, less than half of the student sample from the five universities received COVID-19 survey items. No UW-Oshkosh students received these survey items.

Results suggest several themes:

- Forty-five percent of SSM/Vs who had employment when they took the survey said campus closures affected their jobs; 14% reported losing their jobs and 12% reported losing hours, while 8% of students reported gaining hours.
- Large majorities of students said their internet access (82%), computer or laptop access (92%), and housing arrangements (88%)—aspects of college life reported nationwide to be adversely affected by the closures—would be about the same or better.
- Significant proportions of SSM/Vs, however, reported that other aspects of their life would be worse or much worse, including access to food (23%) and financial stability (37%).
- Importantly for this study, 43% of SSM/Vs surveyed said they thought their level of social support would be worse or much worse due to campus closures.
- Thirty-eight percent of students with children/dependents said in answer to these questions that they thought their access to childcare would be worse or much worse, while 59% said they thought it would be about the same.

Social Support Networks

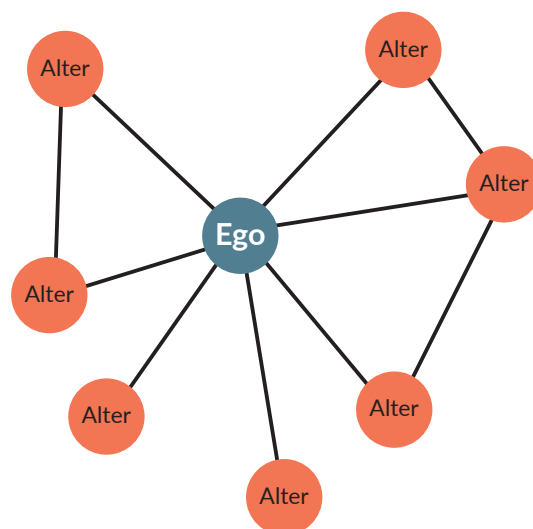
The most important goal of VETWAYS is to better understand SSM/V *social support networks*—or the relationship circles around students that provide assistance, advice, and camaraderie shown to help students succeed academically (e.g., Livingston et al., 2011). With this in mind, here we present survey-based data on the characteristics of SSM/V social support networks.

We study these groups of important relationships using “social network analysis,” a set of research methods that ask participants to list important people they talk to about specific topics, then to provide information on the listed people and relationships (Wasserman & Faust, 1994). Researchers then study the relationship characteristics to see how they might influence participants’ attitudes, decisions, or behavior.

The social support network data that come from these kinds of questions are often represented in diagrams mapping the survey participant (called the “ego”) and their contacts (“alters”) as nodes. The listed relationships between the ego and their alters as well as among the alters are represented as lines between the nodes (Figure 16).

Social support, both on- and off-campus, has been shown to be important to SSM/Vs (e.g., Griffin & Gilbert, 2015; Romero et al., 2015). We presented students with two online survey questions asking them to provide data about alters they talked to about (1) personal matters, as well as alters they talked to about (2) academic/career-oriented

Figure 16. Example social support network diagram



matters. Further survey questions asked SSM/Vs to describe their relationships with alters, alter characteristics, as well as alter relationships with other alters.

SSM/V responses, in turn, allowed us to develop a profile of each student’s social support network that included the number of alters with whom each participant discussed personal and academic/career matters; the role or position each alter played in the participant’s life; how close the participant felt to each alter; the highest academic degree each alter had obtained; and which other people in the network, if any, each alter knew (Figure 17).

Figure 17. Example SSM/V social support network with relationship and alter characteristics



We then used these data to create eight measures of each SSM/V survey participant’s social support network. These measures, which have been shown to be important in past studies of other student and non-student populations (Perry et al., 2018), include:

Network size = total number of alters in each student’s personal matters network, academic/career network, and personal matters and academic/career network combined

Educator percentage = proportion of all network alters who are college faculty or staff

Fellow student percentage = proportion of all network alters who are fellow college students

Tie strength = average strength of relationship between ego and all alters on a scale from 1 (Distant) to 4 (Very close)

Highest degree = Average highest educational level among listed alters with 1=Less than high school, 2=High school, 3=Associate’s degree, 4=Bachelor’s degree, 5=Master’s or professional degree, and 6=Doctoral degree

Effective size = number of different “pots” or unique sources of social support in network, equaling the average number of ties among alters subtracted from the network size

Table 5. Social support network measures for survey sample

Social support network measure	Mean	SD
Personal matters network size	3.9	1.5
Academic/career network size	4.5	2.9
Combined network size	5.3	2.8
Educator percentage	7.3	18.6
Fellow student percentage	5.9	14.1
Tie strength	3.2	0.5
Highest degree	3.2	0.8
Effective size	4.3	2.2

SSM/V social support network measures reveal several findings:

- Students listed an average of four people with whom they discussed personal matters, five people with whom they discussed academic/career matters, and five people in total in their combined social support networks. This indicates that SSM/Vs often discussed both sets of issues with same core group of people.
- Students had on average less than one educators and less than one fellow student in their combined social support networks.
- Students reported an average tie strength of 3.2 with network alters, signifying that participants on average felt “close” to their listed personal and academic/career alters.
- The average highest degree level among SSM/V alters was between an Associate’s and a Bachelor’s degree.

Students listed an average of 4 people with whom they discussed personal matters, 5 people with whom they discussed academic/career matters, and 5 people in total in their combined social support networks.

Connecting Student Attributes to Important Outcomes

Though the findings presented above represent only the first stage of the VETWAYS longitudinal research process, we can still use initial data to calculate whether differences in various student attributes connect or not to important outcomes.

Using regression analyses, here we test how different survey-based attributes of SSM/Vs across all five universities in this study ($n=623$) relate specifically to students' (1) sense of campus belonging, (2) academic integration, (3) likelihood of hanging out in their campus veterans' lounge, and (4) sense of social support through the COVID-19 pandemic ($n=309$).⁵ All significant findings between measures are displayed in Tables 6 and 7. Full regression results are displayed in Appendix II.

First, Table 6 describes significant relationships between the SSM/Vs' gender, race/ethnicity, age, high school GPA, enrollment level (freshman, sophomore, etc.), dependent status, combat experience, first-generation status, and institution (UW–Green Bay, UW–Madison, UW–Milwaukee, UW–Oshkosh, or UW–Stout) and campus belonging, academic integration, use of their campus veteran lounge, and sense of social support during the COVID-19 pandemic.

Table 6. Significant regression results on SSM/V individual and institutional characteristics

Outcome	Significant Results
Belonging	<ul style="list-style-type: none"> All else being equal, SSM/V higher enrollment levels (**) and more dependents (*) significantly associate with a lower sense of campus belonging. Compared with UW–Green Bay SSM/Vs, who are used as the reference group, UW–Madison SSM/Vs reported a significantly higher sense of campus belonging (*).
Academic integration	<ul style="list-style-type: none"> White SSM/Vs reported significantly lower levels of academic integration than SSM/Vs who identified as students of color (*).
Veteran lounge use	<ul style="list-style-type: none"> Older students are significantly more likely to hang out in their college's student veteran lounge, while SSM/Vs with higher enrollment levels and more dependents are significantly less likely to do so (*). Compared with UW–Green Bay SSM/Vs, UW–Madison (**) and UW–Stout (**) SSM/Vs are significantly less likely to hang out in their college student veteran lounges.
COVID-19 social support	<ul style="list-style-type: none"> Compared with UW–Green Bay SSM/Vs, UW–Madison (***) and UW–Milwaukee (*) SSM/Vs were significantly more likely to feel that their so-cial support would be negatively impacted by COVID-19 campus clo-sures.

Note: UW–Oshkosh SSM/Vs did not participate in the COVID-19 section of the survey. P values for significant relationships are displayed in attendant parentheses. * $p < .05$; ** $p < .01$; *** $p < .001$

⁵ Regression analyses mathematically estimate the statistical relationship or lack thereof between participant measures. When testing finds that changes in one measure across participants—high school GPA, for instance—predict an increase or decrease of another measure across participants—college GPA, to use another example—the measures are said to be “significantly correlated” with one another if it is mathematically determined that there is a low probability (usually 5% or less) the association is due to chance. Multiple regressions, which we use here, allow one to test the combined association of multiple measures on an outcome variable.

We next tested the association of each of the SSM/V social support network measures from surveys with these same outcomes. Gender, race/ethnicity, age, high school GPA, enrollment level, dependent status, combat experience, first-generation status, and institution are controlled in these regression models (Table 7).

Table 7. Regression results on SSM/V social support network characteristics

Outcome	Significant Results
Belonging	<ul style="list-style-type: none"> • All else being equal, having a larger personal matters network (**), larger academic/career network (***), and larger combined network (***) predicts a greater sense of campus belonging among SSM/Vs. • Having a higher percentage of educators (***) and fellow students (**) in one's network also positively predicts a sense of belonging. • Effective size, which measures the number of unique "pots" of social support to which students are connected through their combined networks, is also found to be positively associated with SSM/Vs' sense of belonging (**).
Academic in-tegration	<ul style="list-style-type: none"> • SSM/Vs with larger networks (***), higher percentages of educators (***) and fellow students (**), and networks with larger effective sizes (***) have higher levels of academic integration. • SSM/Vs with alters with higher levels of education reported higher levels of academic integration (**). • On the other hand, higher tie strength, which refers to how close one feels to their network alters, predicts lower levels of academic integration (**).
Veteran lounge use	<ul style="list-style-type: none"> • SSM/Vs with larger networks (**), higher percentages of educators (***) and fellow students (**) in their networks, alters with more education (*), and higher effective size networks (*) are more likely to hang out in their college's student veteran lounge. • Students with stronger network ties, however, are less likely to hang out in their college's veteran lounge (***).
COVID-19 social support	<ul style="list-style-type: none"> • SSM/Vs with greater proportions of fellow students in their networks thought COVID-19 closures would be more negative than those with lower proportions of fellow students (**). • Students with higher tie strength were more likely to report that their lives would be better after COVID-19 forced their campuses to close (**).

Note: UW-Oshkosh SSM/Vs did not participate in the COVID-19 section of the survey. P values for significant relationships are displayed in attendant parentheses. * $p < .05$; ** $p < .01$; *** $p < .001$.

RECOMMENDATIONS

The survey and interview data VETWAYS collected above support and extend findings from previous studies on SSM/Vs in colleges and universities. But what implications do results have for educators and leaders hoping to better support these students' academic and career success? Here, we collect several recommendations meant to improve SSM/Vs collegiate experiences, particularly with regard to military to college transitions, campus belonging, and social support network issues reported above.

1. Offer SSM/V-focused university orientations

Research suggests that the challenges SSM/Vs face as they enter the university—whether due to military/university cultural differences, mid-year enrollment, or students' transfer or first-generation status—can be partly alleviated by SSM/V-focused university orientation sessions or expositions for new incoming students (e.g., DiRamio & Jarvis, 2011; Semer & Harmening, 2015). This kind of programming not only communicates a veteran-friendly atmosphere, but also provides tailored information on financial aid and educational benefits, course enrollment, academic, career, and health counseling, campus social and organizational opportunities, military transfer credits, and other issues important to SSM/Vs.

- Orientation may take place in single-day, multi-day, or weekly formats, through classroom meetings or exposition-like events, depending on available timeframe and resources.
- Instruction can purposefully encourage new students to develop academic habits that harness students' familiarity with military culture and military skillsets (adaptability, discipline, schedules, teamwork).
- Organizers can involve campus student service providers (especially those trained in working with military-affiliated students), faculty veterans, researchers working on veteran issues, student organization representatives, and other community members working with service members or veterans.

- Cohort-style orientation meetings or expositions, in particular, can provide SSM/Vs with a chance to develop personal connections with other students, student services staff, faculty, and community members.
- While face-to-face welcoming sessions are important, contacts between university veteran service professionals and new SSM/Vs should ideally begin months before students arrive; these personal contacts, which can help build relationships, can focus on GI and Free Application for Federal Student Aid (FAFSA) paperwork and other campus- and academic-oriented tasks

2. Build SSM/V-specific community on campus

Our data also indicate that SSM/V college experiences are improved when these students' social support networks are comprised of other service members or veterans involved in the university, whether fellow students, staff, or faculty (e.g., Campbell & Riggs, 2015; Elliott, 2015). These relationships allow students to connect with others who have similar experiences, who are comfortable with the communication and interaction norms of military culture, and who often better understand what SSM/Vs are going through.

Relationships with fellow military service members or veterans allow SSM/Vs to connect with others who have similar experiences and who often better understand what SSM/Vs are going through.

With this in mind, bringing SSM/Vs together, with one another and with other faculty or staff veterans on campus is a good way to build social support networks that can help students succeed.

- Student service providers can organize and fund semi-regular social events—such as formal dinners, speaker series, athletic outings, or BBQ contests—bringing SSM/Vs together with others on campus
- Institutions can provide the funding and the dedicated space, preferably on central campus, to establish student veteran lounges where all SSM/Vs can hang out, study, and talk in a safe and open environment.
- Educators can encourage local military-affiliated student organizations, such as local Student Veterans of America (SVA) chapters or UW–Green Bay's Vets 4 Vets, by providing recruitment assistance, expert advice, meeting space, connections to speakers, or even funding for organizational events.
- Veteran recourse centers can act as the organizational hub for campus tutoring programs, peer-to-peer or faculty mentorship programs that bring SSM/Vs together with others who can provide much-needed social support as well as tacit knowledge of campus.
- Online spaces, organized and curated by campus veteran service staff, can also act as a hub for the university SSM/V affinity community.

3. Integrate SSM/Vs into the broader community

While camaraderie with fellow SSM/Vs can significantly improve students' academic experiences, studies also show that student integration into the broader community, on and off-campus, is a helpful way to foster belonging, a feeling that one "fits" in with others around them, and increased confidence and academic motivation. One way to establish this kind of integration is through programming that encourages SSM/V connections to nonveteran students, faculty, and staff. Integration can also be improved by building knowledge among campus and local community members about military culture and SSM/Vs, and forming partnerships with local organizations (e.g., Hammond, 2016; U.S. Department of Education, 2013).

- Educators working with veterans can coordinate campus events that bring student veterans or student veteran organizations together with non-veteran students, affinity organizations, and others interested in supporting members of the SSM/V community.
- Institutions can provide funding for veteran student service to offer "Green Zone" professional development training to campus faculty and staff, focused on instilling knowledge of military culture and SSM/V transitions to university.
- Similarly, educators can work to develop cocurricular opportunities for nonveteran students to learn about military culture and SSM/V experiences.
- Veteran resource centers can aim to foster increased student involvement with off-campus community leaders interested in supporting SSM/Vs, whether local employers, alumni, area businesses with a veteran focus, or veteran-centered organizations such as the American Legion, VFW, or Dryhooch.

4. Increase budgetary support for campus veteran resource centers and staff

Following through on even the most modest of these recommendations will require the UW System to increase support for campus veteran service staff, much of whose time is currently consumed with administratively complex but essential "certification" duties that allow these students timely receipt of their state and federal education benefits (e.g., Griffin & Gilbert, 2015). This certification workload, while central to SSM/V service, leaves little room (or resources) for the kinds of community-building initiatives discussed above (Kirchner, 2015). The situation is further exacerbated by annual shortfalls in the tens of millions of dollars between UW System SSM/V benefit outlays and state GI Bill reimbursements, which may give System leaders pause when considering expanded investment in these students. Still, taking into account the service and sacrifice of SSM/Vs, as well as the vital role these students will play in the state and country's future welfare after graduation, we believe leaders and administrators should consider support for SSM/Vs as an investment rather than an expense.

Following through on these recommendations will require increased support for campus veteran service staff and resource centers, many of which currently do not have the resources or time to lead community-building initiatives among SSM/Vs.

- Because benefit certification is a critical service that directly influences SSM/V financial viability from semester to semester, carving out more resources for SSM/V community-building programming will necessitate additional paid time for planning, coordination, and advising activities.
- Though certification and community building will require different work tasks and areas of expertise, both sets of work duties are foundational to comprehensive, veteran-friendly SSM/V support; co-location of these services in a veteran resource space, in this regard, would be beneficial.
- University leaders can consider moving veteran support personnel, who have traditionally been located in university finance or academic affairs departments, to student life-oriented centers.
- Such changes will not only allow more space for SSM/V community-building activities, but also send the message that SSM/Vs are an important, nondominant, affinity group whose perspectives and concerns deserve to be recognized and included in the university community.

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Appendix I: Research Methods

Approach

The data in this report were gathered for a larger study focused on the connections between SSM/V personal networks and science, technology, engineering, mathematics, or medical (STEMM) career pathways among students in the state of Wisconsin. This study uses a convergent mixed-methods case study approach (Creswell & Plano Clark, 2018). In this approach, a bounded issue or phenomenon is explored using equally highlighted quantitative and qualitative data. These data are collected simultaneously and then analyzed separately to answer attendant research questions. Ultimately, quantitative and qualitative results are meant to be interpreted together to provide a wider, triangulated interpretation of the central phenomenon. Study methods and approaches are displayed in Table 8.

Sampling

Data include SSM/V survey and interview responses across five Wisconsin public universities chosen for their institutional and geographic diversity. The researchers used a purposeful, nonprobability procedure to recruit SSM/Vs, defined as currently enrolled undergraduate students in the National Guard or Reserves or who had completed military service (Barry et al., 2014), by asking veteran service coordinators in each of the five universities to email all identified SSM/Vs study information and an online survey link in spring 2020. Emails elicited 623 survey responses from SSM/Vs across the institutions (31% response rate), with each respondent receiving a \$25 electronic Amazon gift certificate for their participation. Because this response rate limits our ability to generalize beyond the sample, readers should interpret overall survey results with caution.

Interviewee participants were recruited through the online survey. At the survey's end, SSM/V respondents who had earlier listed a STEMM major in Biological or Life Science, Engineering, Health, Mathematics or Computer Science, Physical Science, or Social Science (National Science Board, 2018) were asked if they were interested in qualitative participation. Those who volunteered were asked to provide contact information for interview scheduling. Fifty-four SSM/V in total participated in these interviews, each of whom received \$30 for their time. To ensure as many different perspectives as possible in interviews, we purposefully included more underrepresented minorities, women, first-generation students, and persons with disabilities in our interview sample when we were able to choose among multiple volunteers.

Table 8. Study methods

Approaches	Convergent mixed methods / Case study / Longitudinal / Personal social network analysis
Sites	UW–Green Bay / UW–Madison / UW–Milwaukee / UW–Oshkosh / UW–Stout
Participants	Student military service members and veterans (surveys) / Student military service members and veterans in STEMM majors (interviews)
Instruments	Online surveys / Zoom/Skype semi-structured interviews
Analysis	Descriptive and correlational statistics (surveys) / Segmentation, freelist analysis, and inductive coding (interviews)

Surveys

SSM/V online surveys were designed primarily to gather social support network measures using “ego network” techniques in which questions elicit the details of social ties around each individual (Perry et al., 2018). Other items were meant to gather multiple measures on respondent educational and military experience. The research team conducted several cognitive tests of the Qualtrics instrument, asking several volunteer SSM/Vs and veteran coordinators at participating institutions to complete the survey with a researcher present to whom they could ask questions and comment as they went through the survey (e.g., Bernard, 2011). After making multiple changes to the survey based on these tests, the research team piloted the online survey with 54 SSM/Vs nationwide through Qualtrics. With feedback and results from this initial sample, the research team finalized the instrument for administration in Wisconsin.

Surveys took about 15 minutes to complete. Following methods described in Marin and Hampton (2007), the instrument included two separate “name generator” questions designed to elicit alters whom respondents talk to about personal and academic/career matters (Burt, 1984; Burt et al., 2012; Marin & Hampton, 2007). These read as follows:

Personal network: Please list people with whom you have discussed matters important to you—like good or bad things that happen to you, problems you are having, or important concerns you may have—during the last 6 months.

Academic/career network: Please list people with whom you have discussed academic or career matters—like your major area of study, academic or career goals, or job opportunities—during the last 6 months.

After respondents list as many as 10 unique alters in answer to these name generators, we asked them to characterize every alter and alter relationship by factors shown to be important to networks in previous research, including the role of each alter (fellow student, college educator, family, etc.); how close participants felt to them (distant, less than close, close, etc.); each person’s education level (high school, associate’s degree, bachelor’s degree, etc.); and whether alters knew one another (Ackerman et al., 2009; Barry et al., 2012; DeBerard et al., 2004; Molina & Morse, 2015). The survey also asked questions about student high school, military, and demographic characteristics, university life, career plans and considerations, as well as several demographic items based on age, gender, race/ethnicity, and parents’ education level.

Interviews

Semi-structured interview protocols were designed by the research team to elicit student perspectives and experiences regarding their education and career pathways and social support networks. Initial versions of the protocol were tested with the help of several SSM/Vs and veteran coordinators at participating institutions. After mock interviews, researchers talked through different items on the protocol with these participants. Using participant suggestions and feedback, researchers edited the instrument, retested with more participants, and finalized.

Student interviews took place in March, April, and May 2020 over Zoom and Skype online video platforms. Each lasted about an hour. Interviews began with a “freelist” exercise, a method used to determine items that cultural group members categorize in a particular cultural domain, here facets of military life missing from the university (Weller & Romney, 1988). The freelist prompt read as follows: “What facets of military life or culture, if any, are missing from university life or culture? Please type all the words or short phrases that come to mind.” After each student provided a type-written list of cultural items in the online chat window, they were asked to describe each item’s meaning, if and how items spoke to their university transition, and their overall impressions of their transition. Interviews then moved to questions about SSM/V personal and military experiences, then questions regarding identified social support networks from respondents’ surveys, feelings of campus belonging, and other educational and career issues. After interviews were completed, SSM/V freelist responses were copied and pasted into a Word document; audio recordings of the interviews were transcribed and uploaded to NVivo 11 (QSR International, 2016).

Analysis

Quantitative

Survey data presented in this report were analyzed in three stages after the initial data cleaning was performed in R (R Core Team, 2019). First, we organized the data from the personal network section of the survey in Stata (StataCorp, 2019), then analyzed it in E-NET (Borgatti, 2006) as well as R to generate a series of social support network measures that we used in analyses. Second, we calculated basic descriptive statistics measuring central tendency, frequency, and/or variability (Mishra et al., 2019) on the participating SSM/Vs’ personal information and social network measures presented in the report’s tables. To help readers from each institution better understand how SSM/Vs from their university compare with SSM/Vs from the other participating universities, we performed either Welch’s unequal variances t-test (Welch, 1938; Welch, 1947) or Pearson’s Chi-squared test (Pearson, 1900) on selected personal and social network measures presented in this report. Third, we conducted exploratory regression analyses (Braun & Oswald, 2011) to identify important predictors while exploring the relationships among SSM/Vs’ personal characteristics, social support network measures, and selected outcome measures. We also included a university fixed effect (Gardiner et al., 2009) in our models to control for the average differences across universities in any observable or unobservable predictors. The important predictors we identified in our analyses are presented and discussed.

Qualitative

Interview data presented in this report were analyzed in two stages. First, to provide data on SSM/V transitions into college, native freelist terms representing facets of military life SSM/Vs thought were missing from university life (see Benbow, 2020) were standardized and loaded into *Anthropac* (Borgatti, 1996). Here terms were analyzed by how many participants mentioned each term. Frequency scores for the 10 most often mentioned terms among interviewees are displayed. To further visualize these terms and their importance, we also copied and pasted all standardized freelist terms listed by SSM/Vs into Wordclouds.com, an online program that creates visual diagrams in which terms more often mentioned are larger proportionally than those less frequently mentioned (e.g., Ahearn, 2014).

To speak to student perspectives on other important issues in this report, student interviews were coded and analyzed in *NVivo 11*, a qualitative analysis software program. Here, researchers first segmented all student interviews by topic (transitions from military into university, belonging, etc.). For each major subject reported above, then, the first author analyzed attendant interview segments to detail prominent ideas mentioned for that subject among SSM/Vs, grouping similar interviewee statements together into discrete themes. Here, the author chose student quotations to represent more often-mentioned ideas and in a few instances developed subthemes from interviews to form cohesive, subthematic definitions (Charmaz, 2014; Ryan & Bernard, 2003).

Appendix II: Full Regression Tables

Table 9. Regression of outcome variables on SSM/V individual and institutional characteristics

	Outcome Measures			
	Belonging	Academic integration	Veteran lounge use	COVID-19 social support
Individual				
Female	0.13	0.01	0.05	-0.001
	(0.10)	(0.04)	(0.07)	(0.11)
White	-0.17	-0.09*	-0.06	-0.20
	(0.11)	(0.04)	(0.07)	(0.12)
Age	-0.01	-0.003	0.01*	0.005
	(0.01)	(0.002)	(0.003)	(0.007)
High school GPA	0.02	-0.001	0.01	0.03
	(0.03)	(0.01)	(0.02)	(0.04)
Enrollment level	-0.10**	0.03	-0.08***	0.04
	(0.04)	(0.01)	(0.02)	(0.04)
Dependents	-0.27*	-0.08	-0.19**	-0.21
	(0.11)	(0.04)	(0.07)	(0.13)
Combat pay	-0.16	0.03	0.02	0.08
	(0.09)	(0.03)	(0.06)	(0.10)
First generation	-0.07	-0.05	-0.06	-0.03
	(0.09)	(0.04)	(0.06)	(0.11)
Institution				
UW–Madison	0.36*	0.10	-0.29**	-0.65***
	(0.14)	(0.06)	(0.09)	(0.19)
UW–Milwaukee	0.07	-0.004	-0.05	-0.42*
	(0.13)	(0.05)	(0.09)	(0.18)
UW–Oshkosh	0.01	0.004	0.07	-
	(0.14)	(0.05)	(0.09)	-
UW–Stout	0.11	0.04	-0.27**	-0.26
	(0.13)	(0.05)	(0.09)	(0.23)

Note: UW–Oshkosh SSM/Vs did not participate in the COVID-19 section of the survey. * $p < .05$; ** $p < .01$; *** $p < .001$

Table 10. Regression of outcome variables on SSM/V social support network characteristics

	Outcome Measures			
	Belonging	Academic integration	Veteran lounge use	COVID-19 social support
Personal matters network size	0.07**	0.04**	0.06**	-0.02
	(0.03)	(0.01)	(0.02)	(0.03)
Academic/career network size	0.05***	0.05***	0.03**	-0.03
	(0.01)	(0.01)	(0.01)	(0.02)
Combined network size	0.06***	0.03***	0.03**	-0.04
	(0.02)	(0.01)	(0.01)	(0.02)
Educator percentage	0.01***	0.01***	0.01***	-0.004
	(0.002)	(0.001)	(0.002)	(0.003)
Fellow student percentage	0.01**	0.003**	0.01**	-0.01**
	(0.003)	(0.001)	(0.002)	(0.003)
Tie strength	-0.09	-0.10**	-0.20***	0.25**
	(0.08)	(0.03)	(0.06)	(0.10)
Highest degree	-0.04	0.06**	0.08*	0.08
	(0.06)	(0.02)	(0.04)	(0.06)
Effective size	0.05**	0.04***	0.03*	0.04
	(0.02)	(0.01)	(0.01)	(0.02)

*Note: Each social support network measure association with each outcome was tested with gender, race/ethnicity, age, high school GPA, enrollment level, dependent status, combat experience, first generation status, and institution as covariates. Results for these covariates are not reported. UW-Oshkosh SSM/Vs did not participate in the COVID-19 section of the survey. * p < .05; ** p < .01; *** p < .001*



The Veteran Education to Workforce
Affinity and Success Study

About

The Veteran Education to Workforce Affinity and Success Study (VETWAYS) is a three-year National Science Foundation-funded project focused on the social support networks and career pathways of a growing and increasingly important segment of the U.S. college student population: military service members and veterans.

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