

Nudging for Success

Using behavioral science to improve the postsecondary student journey



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Citi Foundation





About ideas42

We're a **leader** in our field with unique expertise and experience at the forefront of behavioral science. We use this to **innovate**, drive social **change**, and improve millions of lives. We create fresh solutions to tough issues based on behavioral insights that can be scaled up for the greatest impact. ideas42 also educates leaders and helps institutions improve existing programs and policies.

Our work spans 26 countries and encompasses consumer finance, criminal justice, economic mobility, education, energy efficiency, health, and international development. As a global nonprofit organization, our partners include governments, foundations, companies, NGOs, and many other institutions.

At its core, behavioral science helps us understand human behavior and why people make the decisions they do. It teaches us that context matters, that asking the right questions is critical, and that simple solutions are often available, but frequently overlooked or dismissed. We work to identify the subtle but important contextual details that can have a disproportionate impact on outcomes.

Visit ideas42.org and follow @ideas42 on Twitter for more.

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Hidden Obstacles in the Student Journey

From pre-admission to post-graduation

it roughly doubles a person's lifetime earnings.¹ American high school students appear to recognize these benefits, as nearly 70% of high school graduates enroll in college. But starting college is not the same as finishing, and only 59% of full-time students at four-year institutions graduate within 6 years. The results are even worse in community college, where just 29% of full-time students graduate within 3 years.² In a time where the average student borrower owes nearly \$30,000 in student loans, successfully graduating with a degree is incredibly important, as borrowers without a degree are often in the worst position of all.³ It's clear that there's a completion crisis in American higher education.

Theories abound for why college graduation rates are so low. Many point to obvious culprits such as high tuition, poor levels of academic preparation in high school, and the stress of competing obligations like work and family. Though the problems they identify are real, to point to them as the sole reasons students fail to complete their degrees is to fundamentally misunderstand what it's like to be a student.

When ideas 42 looked at the completion crisis from the perspective of students themselves, we saw evidence of all of the classic well-studied challenges. But we also found something else. By applying the lens of behavioral science to our work with over a dozen state universities and community colleges, we discovered that the student path through college to graduation day is strewn with subtle, often invisible barriers that, over time, hinder students' progress and cause some of them to drop out entirely. These behavioral barriers are certainly unintentional and often unrecognized, but their impact on student persistence is significant. Even for students whose tuition is covered by financial aid, whose academic preparation is exemplary, and who are able to commit themselves full-time to their education, the subtle logistical and psychological sticking points we uncovered can have a huge impact on their ability to persist and fully reap the benefits of a higher education.

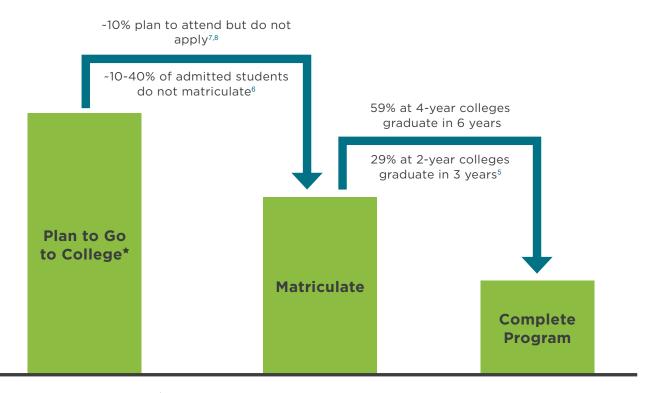
What is behavioral science?

Behavioral science is the study of how people make decisions and act within a complex and textured world where details matter. It draws from decades of research in the social sciences to create a more realistic framework for understanding people. The standard approach to predicting human behavior suggests that we consider all available information, weigh the pros and cons of each option, make the best choice, and then act on it. The behavioral approach shows us something different. We make decisions with imperfect information and do not always choose what's best for us. Seemingly small and inconsequential details undermine our intentions to act. Behavioral science has been used across a variety of fields to realign policies, programs, and products with how we really behave, improving outcomes for millions of people worldwide.

For example, there's the annoying but seemingly innocuous process of having to fill out the Free Application for Federal Student Aid (FAFSA) every year. Students need to do this annually throughout their college careers in order to access any financial aid. Students often have experience filling the FAFSA when they first apply to college, so the need to re-file may confuse students who only associate filling out the FAFSA with their initial application and don't realize it has to be re-done every year. Other students may simply miss the reminder emails they receive from the Financial Aid Department at their school, or continually procrastinate on a task they know they *should* do until it's too late. As a result, many students fail to file by their school's priority deadline, and some forget to file the FAFSA entirely, which often means they can't afford to continue college in the coming academic year. Whatever the specific reason, nearly half of Pell grant recipients who fail to reapply for federal aid don't return to school the following year.⁴ Those students may find it very hard to ever return: two-thirds of students who take time off never end up completing their degree.⁵

Another unexpected and often ignored barrier students encounter is finding a social home and groups of new friends on campus. It can be difficult to quickly build the positive relationships and find the spaces that make school feel like a new home. When students, especially those from low-income or underrepresented minority backgrounds who might be among the first in their families to go to college, fail to find a friend group they click with or campus activity they enjoy within a few weeks, they often see it as a signal that they are not "college material" or that their school isn't "right for them." These feelings can be exacerbated for students who are part of social groups that experience negative stereotypes, as these damaging perceptions can reinforce the belief that they do not belong. They are less likely to realize that many students struggle with social belonging when they start college and that their failure to fit in right away is not theirs alone.

These two barriers are easy to comprehend in isolation. But throughout a student's postsecondary experience, many more behavioral challenges will arise: tackling time management and study habits in a new and unstructured setting; balancing family, work, and academic demands; independently managing finances (including financial aid); and planning ahead for their post-degree career and eventual loan repayment.



*93% of high school seniors plan to go to college⁸

Further complicating matters, students face all of these barriers in the context of limited "cognitive bandwidth" (the mental capacity required to take care of all their responsibilities). Because students lead busy academic and social lives, they are often unable to dedicate sufficient attention to solve new problems they face. As a result, the many small hassles and everyday stressors can accumulate and trigger long-lasting consequences. When behavioral barriers that are psychological (like struggling to find that new group of friends or campus club) interact with logistical ones (like knowing and remembering to re-file the FAFSA), students who face difficulties may decide that college was never "for them" in the first place and give up altogether or decide that now is not the time to pursue a degree. These are the students who fail to fulfill their ambitions, and the ones that can best be served by well-designed behavioral nudges and interventions.

While it is complex and can seem almost insurmountable, this crisis is not unsolvable. Over the past two years, we have been working with colleges and universities across the country to identify some of the specific hidden behavioral barriers students might encounter on the path to a degree. By identifying these small, subtle, accumulated difficulties and designing targeted, cost-effective solutions to alleviate them, we can ease the burden they put on students across the country. Our postsecondary work includes dozens of diverse projects, all **fundamentally designed to increase college degree completion and support student success at every stage in the college experience – from pre-admission to post-graduation.**

This report, encompassing our first 16 completed projects in this domain, attempts to take a holistic look at the student experience. Each chapter highlights a component of the student experience where drop-off is a risk and then provides a series of case studies that illustrate strategies for combating that risk.

Our work, based on a deep understanding of human behavior, offers a perspective on the college experience that is both sobering and hopeful. It is sobering to realize that low graduation rates are partly the result of seemingly minor issues like an application form or challenges making friends. But we also believe that those frustrations can be reasons for hope. It is clear from this body of work that in using what we know from behavioral science, it is possible to make targeted, cost-effective changes that have a meaningful impact on students' well-being and success. Our results demonstrate that we have at our disposal a toolset with the potential to strengthen economic futures and transform the lives of millions of Americans.

Project Summary Table

PRE-ADMISSIONS:	MAKING IT TO DAY 1	PAGE 10
Partner	Intervention Description	Result
YOUTH POLICY INSTITUTE	Created a College Choice Tool and Behavioral Tips and Tricks Guide to increase high school students' college aspirations and improve their college match	N/A: Unable to run randomized controlled trial for this intervention
LaGuardia Community College	Reduced time to register for students through redesigned emails, but had no effect on overall registration rates	+5.6 days earlier registration attendance No significant difference in overall registration rates
AFFORDABILITY 8	FINANCIAL AID	PAGE 16
Partner	Intervention Description	Result
Arizona State University	Increased FAFSAs filed by priority deadline among continuing students through behavioral emails to students and parents	+72% FAFSA filers by priority deadline +\$269-643 in scholarships or grants per student
SAN JOSÉ UNIFIED SCHOOL DISTRICT	Increased financial aid applications and awards among incoming freshmen through helpful reminders	+22% FAFSA applications submitted +81% financial aid awards
CCBC	Reduced student borrowing among incoming students through text messages about how borrowing works as well as an offer to connect with a CCBC aid counselor	-9% total Stafford loans -12% unsubsidized Stafford loans
Anonymous community college	Increased likelihood of borrowing and improved academic success by changing the default loan package to \$3,500 or \$4,500 instead of \$0	+39% likelihood of taking a loan +0.12 GPA for every \$1000 borrowed
VALENCIACOLLEGE	Increased financial aid access by helping students choose aid-eligible courses through redesigned emails sent before and after registration	+\$150 in financial aid access +0.22 in completed credits
VALENCIACOLLEGE	Improved financial health through financial goal-setting and plan-making exercises along with text message reminders	+10% in self-reported financial satisfaction +8% in self-reported ability to access emergency funds

[★] This project was executed by an academic research team - see the project spotlight for more detail.

CONNECTING ON	CAMPUS	PAGE 31
Partner	Intervention Description	Result
SAN FRANCISCO STATE UNIVERSITY	Increased retention and GPA among freshmen at risk of dropping out through a norm-setting video, self-affirmation exercises, and monthly messages	+10% retention among Metro Academies® students +0.18 GPA among Metro Academies® students
ARIZONA STATE UNIVERSITY	Increased work-study applicants and applications among eligible freshmen through redesigned emails encouraging them to apply and providing useful information for getting the application done	+28% number of applicants +56% number of applications
THE BALANCING A	ACT: GETTING TO GRADUATION ON T	TIME PAGE 37
Partner	Intervention Description	Result
SINCLAIR	Increased early course registration and overall registration rates through default advising appointments	+9% early registration +4.2% overall registration rates
Community College of Philadelphia	Attempted to improve student time management through a study plan-making activity during orientation and text messages on study and class attendance behaviors during the semester	+0.17 GPA among full-time students (nonsignificant) -16% SAP violations among full-time students (nonsignificant)
West Kentucky Community & Technical College	Increased tutoring usage and faculty referrals for tutoring through behavioral emails to students and faculty	+34% in use of tutoring +53% in sessions attended 3x number of faculty sending tutoring referrals
The College at BROCKPORT STATE UNIVERSITY OF NEW YORK	Reduced academic (SAP) violations among minority students and class withdrawals among all students at risk for a SAP violation through three workshops and weekly emails and text messages	-30% SAP violations among minority students in program -10% class withdrawals among all students in program
POST-GRADUATIO	N DAY: GET ON TRACK TO PAY IT BA	CK PAGE 48
Partner	Intervention Description	Result
VALENCIACOLLEGE	Improved recall and comprehension of repayment options through lab study that presents the information more neutrally and clearly	+24% remembered repayment terms +21% considered total interest to be paid
GREAT LAKES	Increased student borrower uptake of income-based debt relief program through behavioral emails, reminders, and a document jacket for mail applications	+13% return of IBR form overall +48% return of IBR forms by mail (with document jacket)

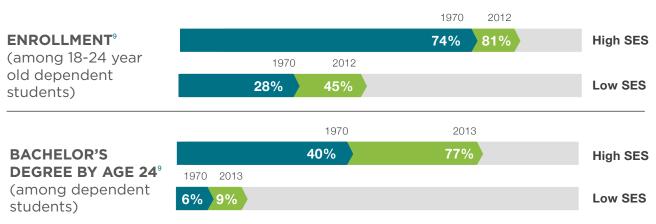
For an explanation of the Metro Academies program, please see the SFSU project spotlight on page 33

Pre-Admissions: Making It to Day 1

Before the first class starts

esearch shows that students at more selective schools with ample resources earn degrees faster, are more likely to graduate, and earn more money after graduation. In a perfect world, students would apply to and attend the most selective, best-resourced school they could get into that offered an adequate financial aid package, all else equal. In fact, half of all low-income students undermatch, choosing a college below their academic abilities and forgoing these advantages. Once students apply to a college (no matter the match), a troubling number of them fail to actually attend their first semester.

In addition to promoting inequality, these are problems that are perplexing on their face. If going to a better college is so beneficial, why would anyone settle for going to one below her academic level? And once someone's chosen a college, why wouldn't she actually go? The answer partly lies in the nature of the choice. The college search and decision process, including deciding whether to seek a degree at all, is highly complex and not at all transparent. It is even more so for low-income students in high schools with low resources. Behavioral science has demonstrated repeatedly that when faced with complex (or too many) choices we often fail to choose altogether, and if we do choose we tend to rely on mental shortcuts. Systematically evaluating colleges means assessing them on important dimensions like academic quality, academic fit (grades, test scores, etc.), net price, and graduation rate. This also includes less crucial but nevertheless salient dimensions like school size, location, campus feel, brand name, types of students, and choices of major, among others. Given the difficulty in narrowing choices down from thousands of colleges along these many dimensions, students often fall back on shortcuts like proximity to home, perceptions of cost, and peer decisions or anecdotes. As a result, half of all low-income students attend a college well below their academic level of achievement.



HIGH SES = top family income quartile LOW SES = bottom family income quartile

The difficulties don't end once someone has decided where to attend. The process of actually enrolling in school involves a series of deadlines, forms to be filled out and returned, and in-person events. Failing to complete even a single task on the long list of enrollment activities can knock a student off-track for college, sometimes permanently. For low-income students balancing college enrollment with high school completion, summer employment, and a lack of familiarity with the process, the risk of falling off track is all too high.

Behaviorally-informed approaches can help students apply to and enroll in high-quality schools that fit their preferences and academic level. Working with two institutions, we created tools designed to help students choose a best-fit college and actively enroll in their school of choice.

To help high school students change their perceptions of school choice and get started on the pathway to higher education, we created a "College Choice Tool" that helps students create a personalized list of schools that matches their academic abilities and preferences, as well as a "Behavioral Tips and Tricks Guide" for staff at the **Youth Policy Institute** to use in shaping students' aspirations around higher education. (See project spotlight p.12)

Additionally, we explored the use of behavioral communications interventions. A series of emails crafted using behaviorally-informed language shortened the amount of time it took students to complete registration at **LaGuardia Community College** in New York. These emails were designed to encourage greater enrollment and interaction with the institution. (See project spotlight p.14)

Choosing a Best-Fit College

Youth Policy Institute

ideas42 worked with the **Youth Policy Institute**, a nonprofit organization in Los Angeles, California that targets poverty-related issues, to strengthen their capacity to help low-income students through key steps in the college search, application, and matriculation process. The Youth Policy Institute works on many education issues, including those surrounding college enrollment and completion.



We found that high-achieving low-income students formed their lists of potential colleges based on those that come to mind easily, such as those their family and peers have attended or talked about. Unfortunately, such availability-based lists rarely generate best-fit schools, as few of these students know a substantial number of college graduates. Additionally, students lack a moment of choice in the application process. Instead of choosing a school based on traditional indicators of success, they often fail to choose and end up at the local community college (or no college at all) due to its default or high visibility status in their minds.

To widen high-achieving students' lists of options and help them land at a better-fit college, we created the College Choice Tool, which provides a user-friendly interface powered by actual college admissions data. Students enter details like GPA, SAT scores, and preferred distance from home and receive a personalized list of 'safety', 'target', and 'reach' schools that match their credentials.

Within the College Choice Tool, schools are graded on an A through F letter grade system, on the basis of critical dimensions like net price, graduation rates, and academic quality. Students often find that schools with a higher sticker price may actually be more accessible to low-income students when available need-based financial assistance and aid are taken into account. These scores then prompt students to make a clear decision about which schools may in fact be the best fit for them.

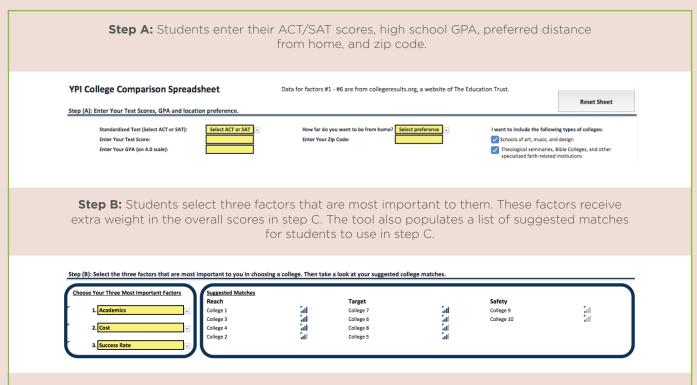
We also developed a "Behavioral Tips and Tricks Guide" to assist the team at YPI in incorporating a broad set of behavioral techniques to further enhance their programming and ultimately encourage students to increase their postsecondary aspirations.

Some of these suggestions included:

- Make going to college the new norm: When communicating with students, emphasize at
 every opportunity that a majority of their peers intend to go to college and have taken steps
 toward this goal.
- **Make it personal:** Personalize all communication to students and frame it so it feels like it is coming from a YPI ambassador or other surrogate that is familiar to the student, rather than an academic institution or other vague entity.
- Make it simple: Provide checklists and outlines in which first steps are easy to accomplish.

Project Spotlight: Youth Policy Institute

By looking at the challenges of the college selection process through a behavioral lens and from the perspective of the student, we were able to create a low-cost tool to help students choose the best school for their personal preferences and academic abilities and improve their prospects for college completion.



Step C: Students select colleges from the dropdown menus in each of the reach, target, and safety buckets. Ratings for categories #1-#5 populate automatically, whereas students are directed to online resources to provide ratings for #6-#8. Overall scores take all of these ratings into account, giving students one simple number to estimate how well they match with each college or university.

Step (C): N	low select schools from the	drop down l	In list (either from your suggested matches or other schools you're interested in) below and work through your college choice guide.								
			#1 Resources for Students	#2 Academics	#3 Success Rate	#4 Cost	#5 Distance from Home	#6 Campus Feel	#7 Technology	#8 Diversity	Overall Fit
	School Name										
	College 1	v	A-	A-	Α	Α	Α	Α	B+	C-	.0 0 86
Reach	College 2	v	B+	A-	Α	В	D+	В	В	A-	。 0 0 71
	College 3	v	A+	A+	B+	A+	B-	Α	A+	A+	。()() 100
	College 4	¥	А	A+	Α	A-	D+	В	A-	B+	。()) 84
	College 5	v	B+	В	B+	B-	Α	C-	B-	В	oll 64
Target	College 6	~	B-	B+	В	B+	A+	В	B+	Α	。[] 78
	College 7	v	B-	Α	B+	B+	A-	Α	A-	A 000 78	.00 87
	College 8	v	C+	В	B+	A-	A+	D	A-	A-	。[] 73
Safety	College 9	v	В	С	B-	C-	B+	С	В	B+	48
	College 10	¥	С	С	D+	В	D+	D+	C-	В	₀ () 35

Example: College Choice Tool

Making It Through Enrollment

LaGuardia Community College

Each year, thousands of prospective students apply and are admitted to college but fail to take the required steps to actually enroll and become a student that fall. "Summer melt," as the problem is often called, affects many students but is particularly likely to occur among low-income and underrepresented minority students, who may lack the resources to effectively navigate the enrollment process once they've received their admissions letter.⁶

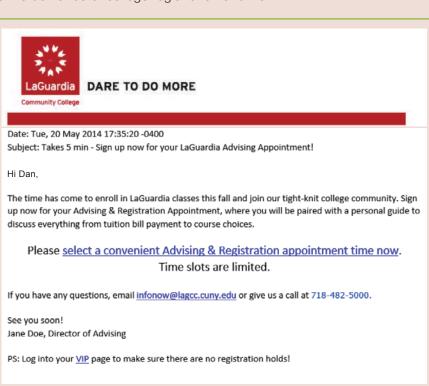


At LaGuardia Community College in Long Island City, New York, the first post-admissions step is an intensive, in-person placement exam. Despite completing this hurdle, more than half (59%) of students never make it to the next step, at LaGuardia or any other college. Similar drop-off occurs in subsequent steps required to enroll, matriculate, and register for classes.

The many steps required to attend college, combined with the long wait time and limited feedback between each of these steps, can result in prospective students falling off the path to enrollment and the first day of classes. Further complicating this process is the fact that incoming freshmen may not yet feel like college students. This identity mismatch makes it even more difficult to break away from their current life and shift their mindset to successfully navigate the demands of college registration and life.

To combat these barriers, ideas 42 revised more than 20 emails written by the school and sent to recently admitted students between the time of admission and the first day of class. These messages were intended to correspond with various checkpoints in the period between enrollment and admission, like when students provide their immunization records or register for classes.

Our messages addressed potential students as incoming freshmen and "LaGuardians" to instill a sense of college identity and frame their attendance as a foregone conclusion. We encouraged them to publicly share their plans



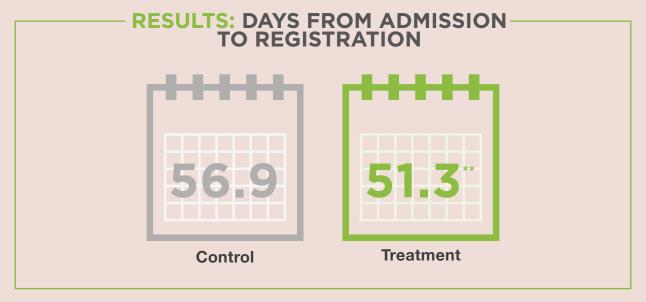
Example: Behavioral Email

Project Spotlight: LaGuardia Community College

to attend LaGuardia in the fall on social media channels, knowing that public commitments can be a powerful way to help people follow through on their goals. To reduce the many hassles involved in the process, we filled our intervention messages with actionable next steps and wrote them in a positive and welcoming tone.

In this case, however, implementation was logistically challenging. We intended to deliver text messages to students in addition to the 20 emails we designed, but a constrained timeline and limited administrative staff capacity at LaGuardia made this impossible. In some cases, an email referenced enrollment processes that only applied to a small subset of the population, and in others, the message was sent too late to impact key steps on the path to enrollment. Due to these challenges, our analysis was based on seven emails sent to students rather than our intended set of twenty.

When examining enrollment outcomes, we found that students who received the redesigned emails attended their registration session an average of 5.6 days earlier than students who did not receive the messages (51.3 days vs 56.9 days from application).** However, we did not observe any other significant differences for students who received the intervention, including any observable change in enrollment outcomes. The lack of impact of this intervention points to the fact that even with clear communication, registration can be a difficult process to navigate. This suggests a need for further iteration and testing. Improving enrollment outcomes may require an intervention that combines clear, effective, non-threatening communication with substantive changes to the enrollment process itself.



** = significant at 99% level

Affordability & Financial Aid

The elephant in the room

n addition to academic options and potential career paths, one of the biggest considerations for many students making the complex decision whether (and where) to attend college is affordability. With tuition and other direct school-related costs (books, fees) to consider, not to mention general living expenses like room, board, and transit, deciding how to pay for college is one of the most significant financial decisions a student can make.

To make college more affordable, American students can access federal financial aid and need-based grants. Yet national statistics show that around the country, students leave more than \$2.7 billion in free federal grants unused each year, simply because they do not apply for them.¹⁰

Behavioral science tells us that future deadlines can be easy to forget and hard to accurately plan for. In addition, students can find it daunting to collect all of the detailed financial information they need to apply (or to fill out the long application). Unfortunately, research has shown that students who don't tap into financial aid opportunities are more likely to falter before college completion, or fail to begin college at all.¹¹

For those who successfully apply for student loans, it can be difficult to know how much to borrow. Many students are making decisions about personal finances for the first time, without any experience predicting how much they will need to live on or how much they need for books and other college costs. As a result, some students may borrow more than they need, making repayment more onerous later on. Other students may underborrow, instead turning to more costly methods of paying for education.¹²

within their major.

Once students have navigated the hassles involved in securing the funds needed to cover tuition and expenses, they must continue to make smart decisions about how to manage their money throughout the year. Many struggle to stretch their funds throughout the semester, let alone the entirety of college. These financial challenges consume mental bandwidth, and when students are stressed out about money it becomes very difficult to succeed academically. Another complicating factor is that affordability is often driven by course choices—students can finish school faster or, in some colleges, access all available financial aid only when signing up for classes

Simple, sensible approaches based on insights from behavioral science can help students meet deadlines and determine their ideal loan amount based on their individual needs. These approaches can also help them better manage their aid and loan disbursements semester to semester, enabling them to focus less on money and more on academics. Our work applying a behavioral lens to matters of money on the college journey yielded key insights that can help students at multiple points in the process.

We found that messaging matters for timely borrowing. Early FAFSA application submissions increased by 72%, and scholarship and grant awards rose by up to \$643 on average at **Arizona State University**, where a series of emails to both students and their parents reminded them of the priority deadline and outlined manageable steps for collecting financial information. (See project spotlight p.19) Additionally, FAFSA submissions rose by 22% and aid awarded nearly doubled for high school seniors in the **San Jose Unified School District** who received a smartphone app that flagged FAFSA deadlines. (See project spotlight p.21)

Another area of focus was helping students choose the right amount to borrow. Some students may borrow too much, while others may not borrow enough. In personalizing communication and understanding the influence of loan offers, we come closer to learning how to best support students



I'm very proud of myself [for] being able [to] pay for my classes and being able to also save money."

in this decision. Students borrowed fewer dollars—up to 20% less for minority students - when receiving a month-long text messaging campaign at the Community College of Baltimore County. These text messages helped students personalize the borrowing process by providing access to a financial aid counselor and information to help determine loan amounts. (See project spotlight p.23)

Changing the manner in which students are presented with loan offers can both increase borrowing and improve academic outcomes. At an anonymous community college, students who received college loan offers of either \$3,500 or \$4,500 in their financial aid award letters were 40% more likely to borrow than students who received a loan offer of \$0, even though student eligibility for loan aid was unaffected. Students prompted to borrow due to a positive loan offer earned significantly more credits and higher GPAs. (See project spotlight p.25)

Finally, we designed interventions to help students make the most of college funds and financial aid once they've secured the right amount. We found that students could access an additional \$150 of their eligible aid for the semester (\$1.5 million across all students) after receiving two redesigned administrative emails during the registration process at Valencia College. The emails focused on using clear, action-oriented language to make sure students didn't lose out on financial aid dollars by inadvertently registering for courses outside their majors. (See project spotlight p.27)

Additionally, financial management and budgeting played a key role in helping students at Valencia College improve financial health. We created an online financial management activity to help students-particularly those who receive lump-sum financial aid refunds set financial goals and create plans to stick to them. The activity, together with a series of encouraging SMS reminders, improved students' satisfaction with their financial situation by more than 10%, and their ability to come up with \$400 at short notice by around 8%. (See project spotlight p.29)



The text messages actually helped me with not spending money."

-Student, Valencia College

Meeting the FAFSA Priority Deadline

Arizona State University

As college costs skyrocket, money remains a major reason that many students don't earn a degree. Yet even with free federal aid available, many low-income students still fail to apply for grants that could help them pay for their college expenses.



Arizona State University (ASU) wanted to support students and ease their financial burden by encouraging them to apply by their priority deadline. Although doing so ensures students get their maximum financial aid package, over four in five students file after the priority deadline and risk missing out on funds (based on the 2013-2014 school year). ideas42 found that students often simply forget about the deadline, don't think they qualify for financial aid, or are deterred by the multiple steps involved (e.g. gathering the financial data needed for submission).

To remove these barriers and help students get every dollar they can, we developed a series of eight emails sent over eight weeks to encourage students to apply for aid before the March 1st priority deadline. We then tested the impact of this email program through a randomized controlled trial with 63,000 ASU students. These emails emphasized the priority filing deadline, encouraged students to talk with their parents about required financial information, and included charts and graphs to make it easier to determine what information was needed. They corrected the common misperception that most students don't use financial aid (when in fact most students do) and broke the process down into easily accomplishable tasks rather than one large, difficult undertaking.

Hi Alissa,

The FAFSA is now available. With FAFSA Mythbusters, we debunk three common myths and help you stay on track for the **March 1st priority deadline**. It could mean thousands more dollars in your financial aid package.

FAFSA Myths Debunked

Fact #1: Mvth #1: Most students don't qualify for financial Over 80% of students at ASU receive financial aid. You only have to file the FAFSA once for You must re-file the FAFSA every year if college. you wish to continue receiving aid. Myth #3: Your financial aid is always available to Apply by March 1st to get all of the money you're eligible for. On average, students you, regardless of when you apply for it. who apply before then get twice the amount of aid!

Submit your application by the Sunday March 1st priority deadline. Here's what you need to do now:

- [✔] Get ASU's college code it's 001081.
- [] Retrieve Your PIN.
- [] See this graphic to figure out if you need your parents' financial information.

Sincerely,

Mellissa Pizo

Executive Director

Financial Aid and Scholarship Service

P.S. Please feel free to reach us at 480-965-3355, via online chat or at our office locations (open Monday from 9 A.M. — 5 P.M., and Tuesday — Friday from 8 A.M. — 5 P.M.).

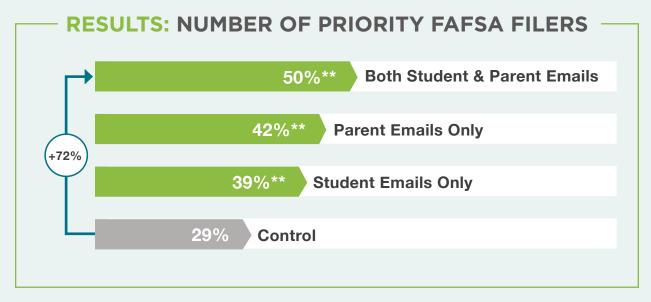
Example: Redesigned Email

Using similar strategies, we also created two emails specifically for parents of ASU students. Some families received both parent and student emails, some received only student emails, and some received only parent emails. The control group received the standard ASU communication protocol for renewing aid, which was one email to students four weeks before the priority deadline.

The results were striking. The jump in early FAFSA submissions was large for all groups receiving our emails, and we saw the largest boost—a 72% increase (from 29% to 50%)**—when both parents and students received emails. When students and/or parents received emails, students were awarded, on average, between \$269 and \$643 more in scholarships or grants that replaced loans. Over multiple semesters, this translates into thousands of dollars that each student doesn't have to pay back later with interest.

The impact of this strategy continued even after the priority deadline. ASU sent their standard emails to the control group throughout the spring and summer, and ideas42 sent redesigned emails to students at the same frequency. By September of the next school year, we found a 3% increase (from 88% to 91%) in FAFSA submissions overall among students who had received ideas42's behaviorally-informed emails.** If all students had received those messages, we estimate that 1,124 more students at ASU would file the FAFSA, receiving a whopping \$27 million more in financial aid. Scaled to all continuing ASU students, sending these emails would cost less than \$0.15 for each additional student who files before the priority deadline.

This work highlights the overwhelming importance of communicating effectively at key points in time, not just with students, but also with parents of dependent students.



** = significant at 99% level

Increasing FAFSA Awards

San Jose Unified School District

Low-income high school students who don't apply for financial aid are less likely to make the leap to higher education. To encourage high school students to apply and meet financial aid application deadlines, Stanford researchers Omid Fotuhi and Geoffrey Cohen worked with a group of high



school students from the San Jose Unified School District in California to use behavioral strategies to improve FAFSA application rates.

Research suggests that some students, including low-income, underrepresented minority, or first-generation students, avoid applying for financial aid for a combination of behavioral reasons. Some are overwhelmed by the complexity of the process, while others worry they'll feel out of place in college or be stigmatized for their socio-economic background. These behavioral factors can cause students to avoid applying for aid, or fail to complete their financial aid applications in a timely fashion.

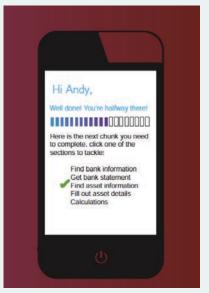
The researchers designed an intervention program to target these behavioral barriers. In a randomized controlled trial, they tested the efficacy of two strategies on a group of 149 high school seniors at San Jose High School. Many of these students came from low-income, underrepresented minority families and would be the first generation to attend college.

In September 2015, students completed a 10- to 15-minute in-class values-affirmation intervention—a writing exercise that asks students to reflect on values important to their identity, like relationships with friends and family or religious affiliation. Short values-affirmation exercises have been shown to im-

prove self-perceptions and provide a buffer against negative thoughts, both of which can help students overcome reluctance in applying for financial aid.

Students then downloaded a smartphone app that, over a period of weeks, delivered reminders and instructions about important deadlines and upcoming tasks related to applying for financial aid. The reminders simplified the application process into manageable tasks they could complete over a series of weeks. Students





Example: Values Affirmation and Reminders on App -

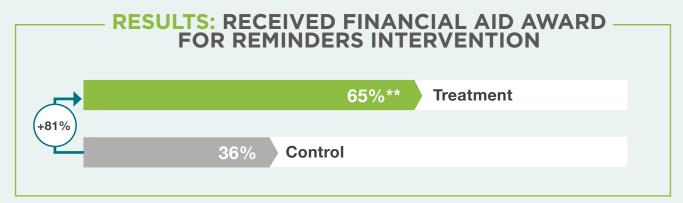
in the control group received reminders about study skills instead of financial aid, while students in the treatment group received either the affirmation exercise, the financial aid reminders via the app, or both.

These strategies had a dramatic and powerful impact. Specifically, receiving the reminders about the financial aid application through the app had the greatest effect on students' likelihood of applying. Students receiving the financial aid reminders through their phones completed their financial aid applications at a rate of 82%, compared to 67% of students who received the control condition of study skills reminders through the app.*

Students who both completed the affirmation exercise and received reminders through the app trended toward an even larger, although statistically nonsignificant, increase in completing their financial aid applications at a rate of 94%, compared with 75% of students who received neither values affirmation nor financial aid reminders.

These interventions also translated into more financial aid awards among those students who applied. Once again, students who received the financial aid reminders through the app were more likely to be awarded financial aid at a rate of 65%, compared to 36% of students who received the control reminders.** Students who received both the reminders and affirmation interventions again trended toward an even higher financial aid award rate of 78%, compared with 39% for the students who received neither intervention, however this increase is statistically insignificant.





^{* =} significant at 95% level ** = significant at 99% level

Personalizing Borrowing Decisions

Community College of Baltimore County

There's a lot of concern in the policy world around student loan borrowing and the financial burden this places on low-income students after leaving school. While much of the work around this issue is aimed at ensuring student repayment to avoid loan defaults, University of Virginia researchers Andrew Barr, Kelli Bird, and Ben



Castleman took a different approach. They started at the beginning of the process to help students make more informed loan choices.

Students often lack clear information about borrowing and have limited access to individual loan counseling. At the Community College of Baltimore County in Maryland, the research team created a month-long texting campaign designed to facilitate personalized decisions around financial aid.

At CCBC, and at community colleges across the country, some students borrow too much and others too little, in part based on whether loans are automatically included in financial aid packages or not. When borrowing, many students aren't sure how much their monthly payments will be after college and don't have easy access to guidance around loan questions.

In a randomized controlled trial from November 2014 to September 2015, 2,800 CCBC student loan applicants were sent a series of eight text messages related to borrowing. The messages emphasized student choice around how much to borrow and the fact that monthly repayment costs can vary based on the borrowed amount. Each message also invited students to write back with questions for a CCBC financial aid counselor.

Students were hungry for this type of assistance. About 70% of students who received the texts responded to at least one.

Notably, the texting campaign led to declines in student borrowing. CCBC students who received the texts borrowed 9% less in total Stafford Loans (from \$2,401 to \$2,218)* and 12% less in unsubsidized Stafford loans (from \$1,301 to \$1,156).* Declines in borrowing were most significant—ranging from 10-27%—among the lowest income students, African-American students, new students, and those with low GPAs. African-American students who received the texts, for example, borrowed \$439 less than those who did not receive the texts (from \$2,928 down to \$2,489).*

Kelli, your loan
payments can be
\$100s higher or lower
each month depending
on how much you borrow
and which repayment plan
you choose. Text me back to
discuss how your borrowing
choices will affect the
payments you owe.

Example: Text Message to Borrower

Project Spotlight: Community College of Baltimore County

It remains unknown whether this reduction in borrowing among a student population that is at higher risk of dropping out has a positive impact on school performance or on students' overall financial well-being. The researchers are continuing to track these outcomes through student surveys and CCBC administrative data.



^{* =} significant at 95% level

Total Stafford loans includes both subsidized and unsubsidized Stafford loans

Influencing Borrowing Through Loan Offers

A U.S. Community College

Community colleges across the country struggle to get their students to graduation. Less than 30% of these students receive a credential within 150% of the expected time to graduation (e.g. within three years for a two year degree). Financial aid is a crucial part of this journey and could play a key role in tipping a student toward earning a degree and away from dropping out.

However, many low-income students avoid loans, even those that do not accrue interest while the student is in school. Though this avoidance of debt may seem prudent, community college students with unmet financial need who don't borrow may be more likely to use credit cards to pay for college, which ends up being more expensive. Thus, initiatives designed to reduce borrowing may actually encourage more costly borrowing, push students towards working more and taking a lower course load (thereby extending their time in school and increasing the costs), or discourage students from continuing with college altogether.

To determine how federal loan aid affects community college students' success, researchers Lesley Turner from the University of Maryland and Ben Marx from the University of Illinois worked with a large, urban community college on how to present loan offers to students.

Although a federal formula dictates how much federal loan aid a college student is eligible for, community colleges themselves decide how much to offer in students' financial aid award letters. About half offer students their maximum loan award, while half offer no loan aid. Loan offers do not affect eligibility, but may have a sizeable impact on students' borrowing decisions if students see the amount listed as a recommendation.

So how does the framing of loan offers influence student borrowing? In the fall of 2015, 19,352 students were randomly assigned to receive a loan offer of either no loan (\$0), or \$3,500 for freshmen and \$4,500 for sophomores.

	Financial Aid Aw		N OFFERE n For The 20		essing Year	
	Fund	Fall :	2015 Amount	Sprin Status	g 2016 Amount	Total
	Federal Pell Grant	Accepted	\$2,063.00	Accepted	\$2,062.00	\$4,125.00
>	Direct Subsidized Loan	Offered	\$1,750.00	Offered	\$1,750.00	\$3,500.00
	Creative Arts Scholarship Fund	Offered	\$5.00	Offered	\$5.00	\$10.00
	Totals		\$3,818.00		\$3,817.00	\$7,635.00
	Examr	ole: Financial	Aid Offers in	Award Letters		

LOAN NOT OFFERED

Financial Aid Award By Term For The 2015-2016 Processing Year

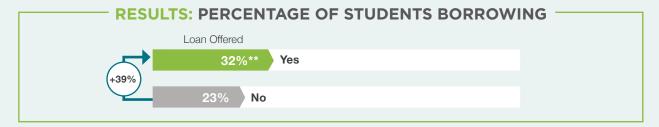
		Fall 2015		Sprin		
	Fund	Status	Amount	Status	Amount	Total
	Federal Pell Grant	Accepted	\$2,063.00	Accepted	\$2,062.00	\$4,125.00
>	Direct Subsidized Loan	Offered	\$.00	Offered	\$.00	\$.00
	Creative Arts Scholarship Fund	Offered	\$5.00	Offered	\$5.00	\$10.00
	Totals		\$2,068.00		\$2,067.00	\$4,135.00

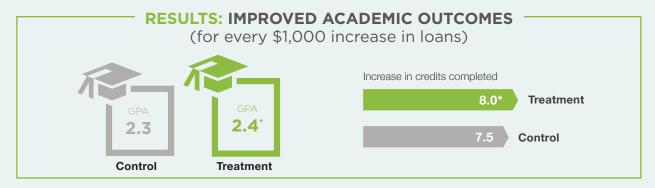
Example: Financial Aid Offers in Award Letters

Students who received a loan offer were 39% more likely to borrow than those who received a \$0 loan offer (32% of treatment students borrowed, compared to 23% in control).** And these students were even more likely to borrow exactly the amount offered rather than any other amount. This translated to an additional \$3.6 million in borrowing.

These borrowing decisions produced immediate effects on educational attainment. Turner and Marx estimate that a \$1,000 increase in loans leads to an increase of 0.46 credits completed in a semester (compared to a baseline average of about 7.5 credits)* and a 0.12 increase in GPA (compared to a baseline average 2.3 GPA).* The researchers found an even larger impact among low-income students and older students.

In the long run, it's possible that these methods of offering loans could impact degree completion, and the researchers will continue to track students over time to test for these effects. By thinking critically and carefully about how to present loan offers, community colleges can potentially positively influence the academic future of their students, while also limiting unnecessary student loan debt.





^{* =} significant at 95% level ** = significant at 99% level

Keeping Students Eligible for Financial Aid When Registering for Classes

Valencia College

Financial concerns have long been a reason that hundreds of thousands of community college students drop out each year. Officials at Valencia College in Orlando, Florida, believed that the hurdles of registration were costing their students significant dollars in federal financial aid.



Colleges are permitted under federal regulations to reduce student financial aid if students select courses outside their declared course of study to keep students progressing toward a degree in a timely manner. About one in seven Valencia students is at risk of losing some aid for this reason in any given semester.

In order to understand why this was happening, ideas42 looked at Valencia's registration process. To choose classes, students must first flip through a paper course guide listing roughly 1,000 courses, each with an average of 17 sections. To avoid being overwhelmed, Valencia students report sometimes taking shortcuts. Some may go with the catchiest course titles or those that are memorable for simply appearing close to the top of the page. Once students know which classes they want, they must enter their selection into an online registration portal, which they find difficult to navigate. For example, if a course number is entered incorrectly, students have to start again. As frustration builds with each failed attempt—students attempt to register more than five times per class on average—they lose focus on their plan, making it even less likely they will go back and find alternatives.

To combat this problem, our first choice would have been redesigning the registration system to help students better navigate the process and provide real-time feedback. Since overhauling the online registration system was not feasible within the scope of the project, we instead opted to redesign the two warning messages that the school sends to students during registration: one that provides general information on choosing courses and another that alerts students when they've selected a course that doesn't qualify for aid. These retooled emails only highlighted courses that fit within a student's major and combined a personalized touch with a clear mention of the possibility of losing "hundreds of dollars" in financial aid eligibility. Numbered action steps—with embedded links—framed the most important information. Both emails contained clear information on how to find advisors and make an appointment, and subject lines conveyed urgency using action-oriented language ("You need to fix your registration") rather than that of a frantic ("URGENT!!!") emergency.

To test the effectiveness of the new emails, 10,102 students were randomly split into four groups. During Spring 2015 registration, two groups received only one of the redesigned emails, and one group received both. A control group received neither.

The payout was big: students who received both of the retooled emails had access to an additional \$150 (from base average of \$6,217) in aid for the Spring 2015 semester, or the cost of 1.5 credits.* This increase equates to an additional \$1.5 million in total aid eligibility for all students in Valencia's Associate

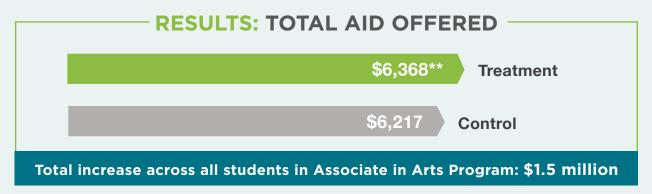
in Arts program. Minority students saw an increase of \$187 (from base average of \$6,352).** Only the two emails working together showed meaningful impact, demonstrating the value of reaching students in multiple ways.

Subject: You need to fix your registration This is Christen from the Financial Aid office. While reviewing your course schedule, we found that you're registered for at least one class that won't be paid for by your federal financial aid: PHY 2048C | GEN PHYSICS WITH CALCULUS 1 | CRN: 15415 Students last year lost hundreds of dollars for this reason. But don't worry, it's easy to keep your full financial aid. Please follow these steps ASAP to make sure that you don't lose any of your aid: 1. Your current program of study is: AA GENERAL STUDIES. If you think you need the above courses to transfer to a different program of study, make an appointment with an advisor or contacting advising directly by clicking here. 2. Otherwise, log into Atlas to drop: GEN PHYSICS WITH CALCULUS 1 using the CRN(s) 15415 3. Register for a new course or courses that meet your degree requirements: · In Atlas, click on "LifeMap" and then "My Education Plan" to see your degree requirements. Choose a course from an area that is still needed. · Add the new course or courses. 4. The last day to add or drop classes is Tuesday, January 20th. If you have questions, email us at enroll@ valenciacollege.edu or call (407) 582-1507. We are here to help! Sincerely. Christen

Example: Redesigned Email

There was also an unexpected bonus: students exposed to both redesigned emails passed an additional 0.22 credit hours each (on top of base average of 8.07 credit hours), moving them further along the track to college completion.[†]

It's hard to imagine a more cost-effective way of improving students' access to approved financial aid dollars: at scale, it costs only \$0.03 for each additional dollar of aid eligibility. Using behavioral insights to improve communications—or even better, the actual systems with which students interface—is a good investment for any institution that prioritizes student outcomes.



t= significant at 90% level t= significant at 95% level t= significant at 99% level

Planning for a Better Financial Future

Valencia College

Financial health is critical to getting a college degree. This isn't simply because of the financial tradeoffs students have to make when they decide to go back to school, or the hidden costs of college. It's also

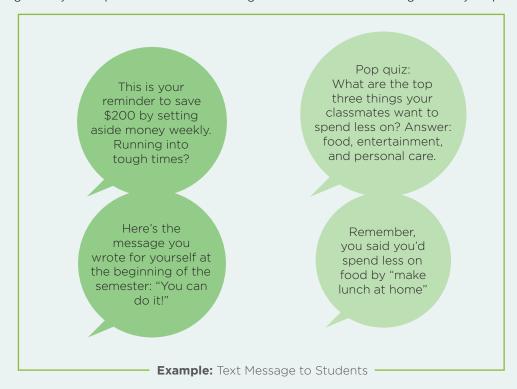


because having scarce resources imposes a cognitive "bandwidth tax," making it difficult to succeed academically while worrying about finances. This problem is especially acute for low-income students with little financial breathing room.

One in three college students says financial problems have negatively impacted their academic performance, and economic issues are the most frequent reason students give for dropping out. With this in mind, Valencia College wanted to help support students' financial management.

Working with Valencia College, ideas42 found several reasons why students struggle with financial management. First and foremost, students are busy working multiple jobs, supporting family members, and trying to repay debt. In addition, students who receive financial aid refunds get lump payments expected to last the entire semester. Students have difficulty budgeting this money and may spend the following semester's payment even before it is received.

To help students overcome these obstacles, we designed a behaviorally-informed online goal-setting and plan-making activity to help students set financial goals and walk them through the key steps needed to



Project Spotlight: Valencia College—Financial Planning

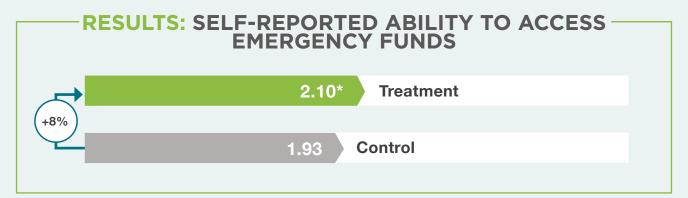
reach those goals, rather than focusing simply on financial knowledge-building. We also created a series of 10-15 encouraging text messages reminding students of the goals and plans they set at the beginning of the semester.

A total of 2,120 current Valencia students were randomly assigned to either a treatment group, which received this intervention, or the control group, which completed a simple financial education exercise offered by the college.

Students who received our package of goal-setting exercises, plan-making exercises, and reminders reported significant improvements in their financial well-being. The largest improvements were an 10% gain (from 1.78 to 1.96 on a four-point scale)* on average in "satisfaction with present financial condition," and a 8% gain (from 1.93 to 2.10 on a four-point scale)* on average in the ability to "come up with \$400 when needed."

This project represents an important first step in understanding student financial stress and how simple interventions can relieve it. The evidence suggests that tools prompting goal-setting and follow-through may lead to significant improvements in quality of life for students while they are in school. We hope future work will demonstrate that these improvements also translate into better completion outcomes.





^{* =} significant at 95% level

Connecting on Campus

Keeping students engaged throughout their journey

f those students who do successfully pass admissions, enrollment, and financial hurdles, a significant number do not return for their sophomore year. At four-year institutions, one in five students drops out at the end of freshman year, and at two-year institutions, that number rises to an alarming one in three. Adjusting to college life is inarguably a challenge for all students, and the reasons for this high dropout rate are varied. Looking at the potential causes from the student perspective, however, sheds light on two under-appreciated contributors to low retention rates: mindset and self-perception.

For many first-time college students, the combination of academic rigor and administrative hassles, fears of not fitting in, and a lack of positive feedback in a new and unstructured social environment can trigger feelings of self-doubt and negative self-identities. These challenges can also be as simple as not physically looking or acting like they believe someone who belongs in college should look or act. In sum, the everyday stress of college life can send the wrong message to students, leading them to question whether they truly belong in college in the first place. For some, this creates a critical dropout point.

For all students, a connection to campus life and sense of belonging in their new academic communities are paramount for college persistence. Finding effective ways to increase student involvement on campus, such as work-study programs or campus clubs, and intentionally reinforcing messages at key points in the semester can help students both develop positive relationships and also recognize that college is challenging for everyone and not just them. Flipping the narrative from personal failure and lack of belonging to a common sense of struggle shared by everyone on campus can help students see their struggles as normal in their environment, and keep them in school.

"

Remember when this was
the only thing you ever
wanted. Remember when you
opened that acceptance letter
and cried tears of joy. Be grateful
for the opportunity you have to
do something you love and
live the actual dream."

-Student. SF State

Through our work tackling this often ignored area, ideas42 developed low-cost solutions that can change behaviors and improve the likelihood that students, especially those typically at risk of dropping out, stay in college. In some cases, these strategies appear to increase the efficacy of existing support programs and to have particular influence among first-generation, underrepresented minority students from low-income backgrounds. These interventions are elegant – they don't require intensive counseling or institutional staff time. Instead, a few intentional tweaks to the student experience can have outsized impact on students' connections to their campuses.

In one of our studies, retention among a group of students at highest risk of dropping out rose by 10%, and their GPAs by 7%, following a digital campaign implemented at **San Francisco State University**. We found that many of the students who didn't make it to sophomore year left due to negative perceptions about themselves and their place on campus. To combat their misperceptions, we created a video of students discussing early struggles as a normal feature of college and followed it with a brief survey. Using language from their own survey responses, we sent students monthly emails and text messages reinforcing the video's message or reminding them of important deadlines. (See project spotlight p.33)

Furthermore, we found that 28% more students applied for work-study jobs and submitted 56% more applications at **Arizona State University** when we redesigned a series of 12 emails the university was sending to encourage eligible students to apply for work-study jobs. Being employed in a work-study job centers students on campus and provides an additional income stream. The new emails emphasized the dollars available, access to mentorship, and the link between on-campus jobs and improved academics. (See project spotlight p.35)

Fostering a Sense of Belonging

San Francisco State University

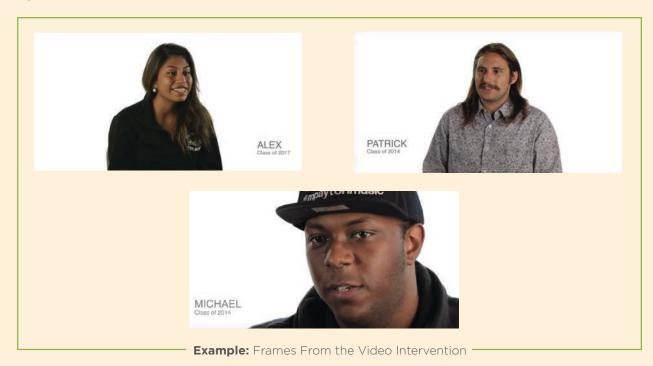
Enrolling in college is the first step to a degree, but many students struggle to stay in school and complete their course of study. This problem is particularly acute at the start of a student's college journey.



At San Francisco State University (SFSU), 18% of freshman did not return for sophomore year, and while some dropped out because they failed to complete remediation, the majority left for non-academic reasons.¹³

Applying a behavioral lens to the problem, we discovered that very early in the school experience students create disempowering narratives about themselves and their abilities. They begin to doubt whether they are "college material" and, feeling disconnected from campus life, fear they don't belong.

Solving this meant reframing students' view of college life and helping them find their place in the university community. Working with the university cinema department, ideas 42 created a three-minute video of older students describing their own struggles and routes to success. The video, delivered to incoming freshman through the university's intranet, was followed by a brief survey that reinforced the video's message and prompted students to connect it to their own goals and values in their own words. The intervention was designed to help students see that the challenges they faced were not unique to them, nor were they a sign of personal failure. By arming students with that knowledge, we hoped to bolster their resilience against threats to their confidence.



Project Spotlight: San Francisco State University

These survey responses were then used in 11 text and email messages sent once a month throughout the academic year. These messages reminded students of important deadlines such as registration or financial aid, repeated their own encouraging words to themselves, and highlighted their personal goals and aspirations at high-pressure moments such as midterms.

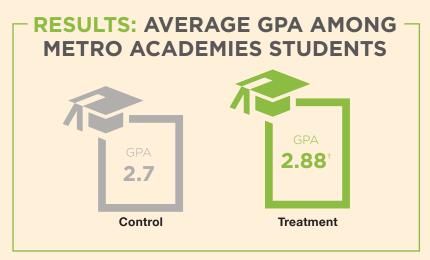
We delivered the intervention via a randomized controlled trial to half of the 6,402 incoming students just before classes began, while the other half only received SFSU's standard welcome video. We were particularly interested in outcomes among the 304 students in the Metro Academies College Success program, which identifies students at highest risk of dropping out and provides more intensive support during their first two years.

It was among the Metro students that we saw the strongest results. 91% of Metro students in the treatment group returned for their sophomore year. This is a 10% increase over the 82.5% return rate for the control group.*



GPA among Metro students receiving the intervention jumped 7%, from 2.7 average GPA for the control to 2.88 for the treatment group.[†] We also saw a trend toward more credits completed, but this 8% increase to 21.4 credits was nonsignificant. Finally, we saw a 2.2% increase in GPA, from 2.73 to 2.79,[†] on average for all minority students (regardless of their Metro status).*

These results suggest that relatively low-cost interventions (in this case, \$470 per additional student who persists across the Metro program) can ratchet up the efficacy of programs supporting students at high risk of dropping out. If we can increase college persistence by 10% with one video, one survey, and 11 messages, the potential impact of an intervention like this across multiple colleges is huge.



* = significant at 90% level * = significant at 95% level

Staying Connected to Campus Life with Work Study

Arizona State University

On-campus, part-time jobs can play an important part in keeping students in school, helping them feel more connected to campus life, and improving their financial status. Yet students often don't



take advantage of federal work-study opportunities. At Arizona State University (ASU), just 11% of more than 2,000 freshmen eligible for work-study through the school's Student Engagement and Employment Development Plan (SEED) applied for these positions in the fall of 2014. Because so few students applied, only 20% of the jobs were filled, leaving \$684,000 for eligible students untapped.

We found students didn't apply for these jobs because of skewed perceptions about the financial and academic benefits of work-study programs, such as the belief that they are low-wage or menial jobs. Some thought that to succeed academically in their first year they should not work. Our research also found that the application steps were complicated and that students often missed application deadlines.

In a series of emails redesigned by ideas42, we emphasized the money available through work-study jobs, the access to mentors, and the potential for improved academics. The emails sought to reduce hassles in the application process by providing a sample ASU resume and a simple guide to listing references. The application deadline was clearly stated and students were offered a link to a scheduling tool that helped them plan a time to complete their application.

In a randomized controlled trial, we assigned 2,335 freshmen eligible for SEED jobs in Spring 2015 to two groups. One received the ideas42 redesigned emails and the other received standard ASU communication about the program. Each group received 12 emails in total.

Subject: Grow your career, starting now

Hi Andrew,

Congratulations! You are among the select 4% of students invited to participate in ASU's new SEED program. The SEED program will help you grow your skills now so that you can be better prepared for your career when you graduate. **Earn an additional \$1,200 - \$1,900 this year** through an on-campus SEED job.

SEED gives you:

- · one-on-one mentorship with a dedicated mentor
- · enhanced access to professional development training
- cutting-edge support services, such as Gallup's StrengthQuest skills assessment

Don't lose out on the opportunity you've already been awarded! Apply soon—many jobs are closing February 5! It only takes 10-20 minutes to apply.

Is a SEED job right for you? Select one.

Yes I want a SEED job now.

Maybe, let me think about it and decide later.

No, I already have a job or don't think I qualify.

Example: Redesigned Email

Project Spotlight: Arizona State University

Students opened 23% more of the redesigned emails and clicked through the content 60% more compared to the standard communications. As a result, 28% more students applied for SEED jobs (from 9% to 12%)* and 56% more applications were submitted (from 304 to 475 applications).**

Because of logistical problems related to the hiring process, the increase in the number of students hired for jobs in the intervention group compared to the control group was not significant (55 vs. 50). While the full impact of the communication has not yet been observed, even that modest growth in work-study employment helped the additional students earn an average of \$1,600 more over one year providing a steady stream of income for needs such as books, food, or supplies that students may not adequately anticipate when calculating the cost of college. At the scale of eligible freshmen at ASU, we estimate it would cost \$11 for each additional student who would apply to SEED or \$2 for each additional application, increasing the cost-effectiveness of current practice by using the redesigned emails.

With minor modifications, these emails can be used at colleges across the country to help students connect with work-study programs and potentially earn millions of dollars more towards their education.

RESULTS: NUMBER OF UNIQUE APPLICANTS



=10 applicants

RESULTS: NUMBER OF APPLICATIONS

=25 applications

* = significant at 95% level ** = significant at 99% level

The Balancing Act: Getting to Graduation Day on Time

Promoting academic success with better use of existing services and structures

t's not all financial and social: campus life brings a mix of new academic challenges for students that can threaten on-time college completion, driving down the likelihood of graduation at worst and driving up the cost of a degree at best. Academic difficulties can be particularly damaging because students who don't meet minimum GPA or credit completion requirements risk losing federal financial aid, and negative academic feedback can reinforce harmful self-perceptions and incorrectly send students the message that they don't belong. Lowincome students experiencing these struggles may leave college before earning a degree—in debt with no return on their investment—or turn to more costly ways to borrow the funds needed to continue.

The reasons for academic struggles are varied. Students may underestimate the amount of study time needed to pass classes and have difficulty balancing their schoolwork with everyday outside obligations like work, family, and friendships. While many higher education institutions offer formal support systems like on-campus tutoring, these services are often plagued by low uptake and visibility. Some students erroneously view help-seeking behavior as an admission that they are not "cut out" for college, and still others seek it out too late in the semester to turn their grades around.

To increase the number of students taking advantage
of useful college services and support systems, ideas42
designed solutions encouraging students to seek out tutoring,
study more, and register earlier for classes to ensure they have the
optimal course load and schedule. We designed these interventions not just to help students successfully follow through on these actions, but to help them feel like these behaviors were the norm among
their peers. In one project, we expanded our efforts to target college faculty as well, acknowledging
the important role they can play in supporting students and encouraging positive action. By targeting
specific behaviors like accessing tutoring, budgeting study time, and registering for classes, we were
able to improve individual elements of the student experience and increase academic success.

For example, the number of students registering early for classes went up 8.5%, and overall registrations 4.2%, when we created an online tool that automatically scheduled appointments with academic advisers at **Sinclair Community College.** As a result, students were able to access classes before they were filled, allowing them to pick courses they wanted and persist, and the school was able to improve planning for course demand. (See project spotlight p.40)

Additionally, at the **Community College of Philadelphia**, we strove to help students balance commitments outside of school with needed study time. Because information alone doesn't lead to action, we prompted students to fill out a tangible time-block calendar of obligations to help them pick the courses and study times that worked for their overall schedules and sent out a series of motivational texts and study tips throughout the semester. Although not statistically significant, GPAs increased by 0.17 points and academic violations dropped 16% among full-time students. (See project spotlight p.42)

Students receiving a series of emails that included motivational messaging and peer testimonials were 34% more likely to attend a tutoring session and attended 53% more sessions at **West Kentucky Community & Technical College.** A series of emails to faculty tripled the number of students referred for tutoring. (See project spotlight p.44)

66

Your encouragement was extremely valuable in motivating me to take action."

—Student, West Kentucky Community and Technical College "

Thanks for the advice and guidance. I just want to let you know it doesn't fall on deaf ears. It keeps me always thinking how to improve and stay motivated."

-Student, The College at Brockport, SUNY

Finally, students at risk of academic progress violations withdrew from 10% fewer classes and used the tutoring center 27%

more at The College at Brockport, State University of

New York, where ideas42 aimed to reduce academic progress violations through increased class attendance, study time, and use of the tutoring center. We widened the pool of students alerted to their risk of violation, sent weekly emails and texts with administrative reminders and academic guidance, and designed and delivered three in-person workshops. The impact was even stronger among minority students, who were 35% more likely to seek tutoring and had 30% fewer academic violations. (See project spotlight p.46)

"Tough week?
Remember, difficulty
means your mind is
growing and making new
connections. One key to
success is to keep pushing
when it gets hard."

-CC of Philadelphia Text Message, Fall 2015 "Thank you I need this this morning."

-Student at CC of Philadelphia Text Message Response, Fall 2015

"Don't give up, hard work pays out in the end. Strive for success." —Vanessa, earlier this year

-CC of Philadelphia Text Message, Fall 2015 "I will carry that with me forever."

-Student at CC of Philadelphia Text Message Response, Fall 2015

Example: Text Message Exchange

Registering Early to Plan for Success

Sinclair Community College

Registering early for classes is an important element of academic success and progress toward a degree. Doing so helps students get the courses they need and aids colleges in planning for demand. At Sinclair Community College in Dayton, Ohio, one-third of students registered for class during the final month of the registration periodjust before the Fall 2014 semester began.



Upon further study, we found that Sinclair's communication with students emphasized the beginning of the upcoming semester, a week after course registration closed, rather than the registration deadline itself. In addition, the registration process was cumbersome, and many students did not understand the repercussions of registering late.

To encourage students to register earlier, we worked with Sinclair to pilot an online system that automatically scheduled appointments with academic advisers either in person or by phone to discuss registration. Students could cancel or reschedule appointments as needed and were also sent post-appointment reminders to register.

As part of a separate intervention, students received 22 pairs of emails and text messages over a 12-week period with information related to registration. The language in these messages was chosen based on behavioral principles shown to encourage action. For example, some messages made registration seem urgent, while others provided clear steps.

In a randomized controlled trial with 17,900 students, both of these interventions led to a 7-9% increase in early registration over their respective control groups (advising appointments: 33.2% vs. 30.6%;** messaging: 35.4% vs. 33.1%).**

Subject: You have an advising appointment

Hi Lori,

My name is Sarah and I work in Sinclair's Academic Advising Center. I've scheduled you to meet with an advisor specializing in [CAREER COMMUNITY]. Come to the Advising Center (Room 11346) **next [DAY OF WEEK] at [TIME OF DAY]** and we'll help you select your Fall semester classes. All you have to do is show up with a picture ID and give your name at the sign-in desk.

As a reminder, here's the link to the <u>Course Scheduler</u> where you can sign in to view your MAP* and pick your classes. If you register before then, let me know and I'll cancel the appointment.

See you soon!

Sarah

*Don't have a MAP? Don't worry, your advisor will help you set one up.

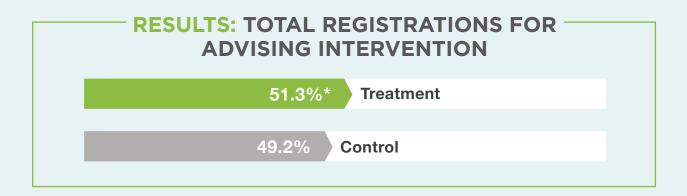
Example: Behavioral Email for Pre-Scheduled Appointment

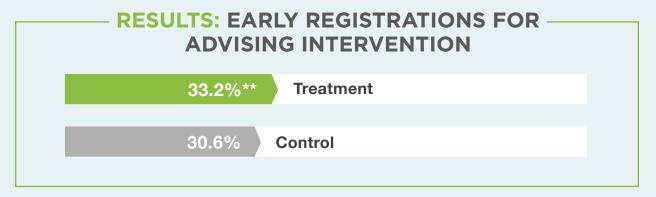
Project Spotlight: Sinclair Community College

Students receiving both the advising appointments and the messages registered at about the same rate as students who received just one.

The advising intervention also led to a 4.2% increase in overall registration rates (51.3% vs. 49.2%).* This increase in enrollment is higher for students who received just the advising intervention than both advising and messages, perhaps because the additional messages changed students' interpretation of the advising emails as less personal. The advising intervention also increased the use of these services: 33% more students who received just the advising emails spent time with advisers (37.6% vs. 28.2%),** making it more likely they'd have success navigating the college system.

These easily-scalable behavioral interventions can help students overcome obstacles on the path to timely degree completion. The advising intervention, which increased both early registration and student persistence, would cost only \$13 for each additional student to register early or \$16 to retain them when implemented across all continuing students at Sinclair.





^{* =} significant at 95% level ** = significant at 99% level

Planning for a Balanced Academic Life

Community College of Philadelphia

Students transitioning to college often grapple with challenging coursework. They may vastly underestimate the time needed to study and sufficiently grasp their new material and as a result find it difficult to balance work, family, and school.



At the Community College of Philadelphia (CCP), educators officially recommend two hours of independent work for every one hour a student spends in class. However, ideas42 found that students had trouble meeting this goal for a variety of reasons. As students chose classes during CCP's live orientation and registration sessions, they often failed to account for the extra homework time their classes required. When they did account for it, they were overconfident in their ability to manage their academic workload. Students frequently registered for classes and activities that resulted in schedules that were too packed, especially when family and work obligations were taken into account.

We set out to help students plan for the actual time needed to do well academically and stay on top of everything they would be responsible for as college students. To do this, we targeted 152 of CCP's registration sessions, which included about 2,800 students. We then split them randomly into two groups. One group received the normal orientation and registration session programming from CCP, and the treatment group received our new intervention at the end of the orientation session.

Students in our treatment group took part in an interactive planning activity during their registration session, creating a written calendar of commitments and identifying study periods while choosing class times. At the end of the session, students turned in a copy of their self-created calendar and their mobile phone numbers to orientation leaders.

NAME: Colonial Phil J#: 123456		56 E-MAIL: cphil@	E-MAIL: cphil@ccp.edu		Community College of Philadelphia		WEEKLY SCHEDULE	
TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
7:00 AM								
	Drop off Ben at School		Drop off Ben at School		Drop off Ben at School			
8:00 AM	Travel		Travel		Travel			
9:00 AM	Anatomy	Travel	Anatomy	Travel	Anatomy			
10:00 AM								
10.007				School Work Campus Library		School Work Campus Library		
11:00 AM		School Work Campus Library				Campus Library		

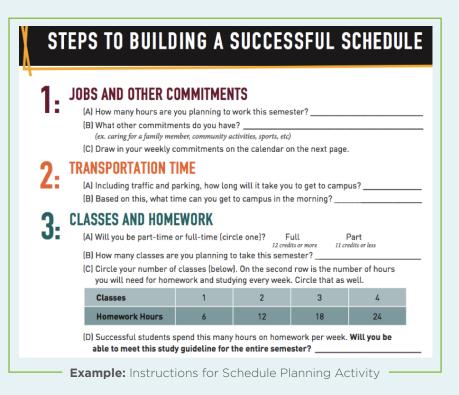
Example: Scheduling Activity

Throughout the semester, we reinforced treatment group students' plans for balancing life and academics by sending them a copy of their original calendar, as well as text messages with study reminders and behaviorally-designed motivational messages.

Project Spotlight: Community College of Philadelphia

The text message platform in our design could both send and receive messages, and while our team anticipated interactions with students as a result of our outgoing text messages, we were surprised by the many students using the text line as a resource for general questions about school. This proactive outreach from students suggests the need for an easily-accessible and familiar platform, such as a text line, to provide help and support throughout the college process.

Our intervention resulted in differences between the treatment and control groups among full-time students at CCP, but



these differences were not statistically significant. Among the treatment group who received our planmaking design and text messages, GPA rose by 0.17 points (from 2.1 to 2.27) and Satisfactory Academic Progress (SAP) violations dropped 16% (from 31.3% to 26.4%). Though these differences were not statistically significant, improvements for the treatment group on these and several other indicators of academic success are suggestive of a positive effect. A future experiment with a larger pool of student may be able to provide more rigorous evidence of the effects of this intervention.



Taking Advantage of On-Campus Tutoring

West Kentucky Community & Technical College

Academic stumbles pose a significant impediment to achieving college success, yet many students don't seek out help when they need it. At West Kentucky Community & Technical College (WKCTC), many students were failing or withdrawing from courses, but few used the free tutoring services available on campus.



Through our research, ideas42 discovered that many students were aware of the tutoring center but were not necessarily thinking about tutoring at the times when they needed it most. Feedback on coursework was often not provided until after midterms—at which point visiting a tutoring center could feel overwhelming or "too little, too late." In addition, the process of scheduling a tutoring session involved multiple steps, causing students to procrastinate around completing the task. Students also faced psychological barriers, such as the misperception that tutoring is only for under-achieving students or that successful students do not use those services.

Finally, faculty were expected to guide struggling students toward tutoring, but few actively tried to bridge the gap between students and the tutoring center. Tutoring referrals that did occur were impersonal, vague, and rarely followed up on.

To connect more students with tutoring, we implemented three randomized controlled trials over the 2014-2015 school year. In the fall of 2014, we ran a quick pilot, dividing 4,624 WKCTC students into three groups. The treatment group received a personalized email with information about tutoring and clear instructions on scheduling an appointment, along with three reminder emails sent at critical academic times during the semester. A second group received a standard email

Subject: A personal story

Dear Dana,

I want to share a personal story with you that helped me realize how valuable the Tutoring Center is for our students.

"I really didn't know what to expect during my first tutoring session. But, everyone was extremely friendly from my very first experience with them. Each tutoring session is structured toward the individual needs of the student. In math I was taught what terms meant, and tips and tricks to remember formulas. In A&P we would go over key topics, break down processes into smaller bits until I understood them. It was nice to just have a "study buddy" who would quiz me and encourage me.

The tutors are all students who have been successful in the particular subject. It's not just a random person who had no experience with the subject. They teach from not only knowledge, but also from experience. My A&P instructor told me that if I went to a tutor, I would raise my grade at least one complete letter grade. He was correct. I went from not passing, to ending the semester with an 80%.

It's free, it's only an hour of your time, try it! It would sure beat having to repeat the class because you didn't pass!!"

-Testimonial from a current WKCTC student who is applying to the nursing program, hoping to be accepted for the fall

Join your fellow students at the Tutoring Center. Reserve your spot now! There are three ways to sign up:

- 1. Sign up through Blackboard. Click here for instructions.
- 2. Call the tutoring center at 270-534-3179
- 3. Come to the tutoring center (2nd floor of the library) and sign-up in person.

See you soon,

Mason Tudor
Tutoring Center Coordinator

Example: Behavioral Email

Project Spotlight: West Kentucky Community & Technical College

about tutoring automatically generated from the Starfish student success platform, and a control group received no additional communication about tutoring as part of the experiment.

Among those students who had not attended tutoring prior to the intervention, students in the treatment group attended more total tutoring sessions (80 sessions) compared to either the standard email group (56 sessions) and the no-email control group (33 sessions).*

A second experiment took place in the spring of 2015. This time, 3,004 students receiving financial aid were divided into two groups. A treatment group received a series of nine behaviorally-designed emails over the course of the semester. A control group did not receive any messages about tutoring.

The emails highlighted use of tutoring by many students, including many who were academically successful, as well as peer testimonials and success stories. They also emphasized that good academic standing was required for financial aid eligibility.

We found statistically significant differences in tutoring attendance: students in the treatment group were 34% more likely to attend a tutoring session (6.71% vs 4.99%)† and attended 53% more sessions (263 vs. 171).† In an online survey, students in this group reported more positive perceptions of the tutoring center and were more likely to know how to access its services.

We also focused on the role of faculty. In Spring 2015, 261 WKCTC faculty were assigned to two groups. A treatment group received a campaign of eight emails designed to spur tutoring referrals, and a control group received no additional emails about tutoring.

Faculty receiving the email series, which included explicit referral steps and student and faculty success stories, were three times more likely to refer a student (18.98% vs. 6.45%).** In an online survey, faculty in the treatment group reported increased awareness of campus tutoring services.

If scaled to all students on financial aid at WKCTC, we estimate that it would cost \$12 for each additional student using tutoring or \$2 for each additional session. At the scale of the entire faculty, we estimate that it would cost \$30 for each additional faculty member who would send at least one tutoring referral.

Together, these findings demonstrate that with the right outreach strategies, community colleges can encourage more students to use academic supports (and more faculty to send referrals). Though overall tutoring uptake remained relatively low, these light-touch interventions are an important first step, and should serve as motivation for more intensive efforts to help students make use of tutoring.



^{* =} significant at 90% level * = significant at 95% level ** = significant at 99% level

Maintaining Good Academic Standing

The College at Brockport, State University of New York

Financial aid is an important piece of the puzzle for many students working to earn a degree. But academic requirements tied to that financial help can create more difficulties for students who struggle in school.



Falling below minimum GPA or certain credit completion standards can cause students to lose access to federal financial aid, prompting some to drop out and others to seek more costly loans that burden them with greater debt. At The College at Brockport, ideas42 worked to reduce Satisfactory Academic Progress (SAP) violations to ensure students could access federal aid.

SAP violations are issued at the end of spring semester, and Brockport sends one warning to at-risk students at the start of the spring semester. In addition to a large proportion of students warned in early spring, many new transfers and students whose GPAs fell during the semester would ultimately receive SAP violations.

We formulated a two-pronged approach to the problem: expand the pool of those who received warnings and improve those warnings to focus on behavioral bottlenecks that prevented students from doing well academically. These bottlenecks included sporadic class attendance, insufficient study time, and a failure to use available tutoring services.

In the spring of 2015 we widened the reach of the violation warning email to include transfer students and those just above the at-risk GPA threshold. In a randomized controlled trial, we split 1,300 students into

two groups. Half the students had access to our interventions, while the other half got the standard school communications.

Students in the intervention group received a redesigned warning email as well as weekly emails with administrative reminders and academic guidance, such as prompts to use the tutoring center before midterms or study tips from other students. About 160 students opted to also receive text messages aimed at overcoming academic challenges.

The students were also invited to three voluntary, in-person work-

rit is	the ability to sustain interest in and effort toward long-term goals.
Comple	ete the statements below with goals that make sense for you personally
	oles: If I miss a class, then I will get notes from a friend in the class. If I find that I am always tired during my mid-afternoon class, then I will get coffee or tea before the class begins.
f I do i	not understand the material in one of my classes, then I will:
f I get	any grade below a "C" on a major assignment (paper or exam), then I will:
f I get	any grade below a "C" on a major assignment (paper or exam), then I will:

Project Spotlight: The College at Brockport, SUNY

shops. About 20% of the group came to at least one workshop. In the workshops, students identified common academic challenges and generated ideas about how to address them. Students were also encouraged to adopt a "growth mindset" in which academic challenges and even mistakes indicate building of knowledge rather than a lack of intelligence. By contrast, students who view themselves with a "fixed mindset", believing that they are born with a set intelligence, can be discouraged by failure and reluctant to challenge themselves.

Through these same intervention channels, we also worked to shift students' perceptions about studying and class attendance norms. For example, we noted that for the average Brockport student, each class session cost \$70. Highlighting the tangible costs for students plays into the behavioral principle of loss aversion, which refers to people's tendency to strongly prefer avoiding losses over acquiring gains. We made studying the norm for students, pointing out that successful peers study 20 hours per week. Messaging also noted that almost half of students receiving academic awards had used tutoring in the past year, making it clear that many of the best students ask for support.

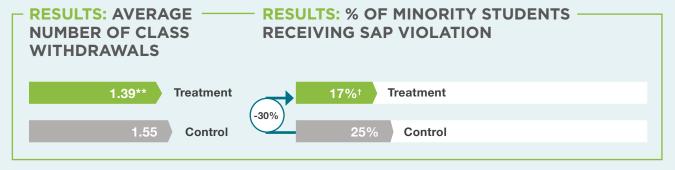
Feedback from participants highlighted positive connections students made with each other during the workshops and indicated a boost in confidence from the weekly positive messaging, suggesting that colleges should seek to enhance social supports from both peer groups and university officials.

Overall, students in the intervention group withdrew from 10% fewer classes (from 1.55 to 1.39 withdrawals per student)** and were 27% more likely to seek out tutoring (from 13% to 17%).†

The impact was more pronounced among minority students, who received 30% fewer SAP violations (from 25% to 17%),† withdrew from 15% fewer classes (from 1.74 to 1.48 withdrawals per student),** and were 35% more likely to seek tutoring (from 17% to 23%).* At the scale of the entire pool of at-risk students at Brockport, we estimate it would cost roughly \$3,250 for each fewer SAP violation or \$500 for each fewer class withdrawal.

The results were strongest for students who attended at least one workshop. These highly engaged students were 9% more likely to register for the following semester (from 82% to 89%),** withdrew from 13% fewer classes (from 1.55 to 1.35 withdrawals per student),* and were roughly 2.5 times more likely to get tutoring (from 13% to 32%).** However, 'selection effects' may be at play with this group, as students who chose to engage may be those who were already more academically motivated.

Given the positive results of the study overall, and an even stronger result for students who experienced the full intervention, an adapted version of this initiative is worth exploring as a preventative program for all freshman students.



Post-Graduation Day: Get on Track to Pay It Back

Making good on the investment

ithout a doubt, financial aid plays a critical role in helping students access higher education. Yet even if they're able to secure it and persist through all of the other hidden challenges on the road to graduation day, they're not off the hook yet. Once students graduate or leave college, they need to begin repaying their loans, and a new set of behavioral barriers emerges. Even with the best of intentions, borrowers can find themselves missing loan payments or even slipping into default. The problem is widespread: in the second half of 2015, almost 3 million student loan borrowers nationwide were at least a month behind on their payments.¹⁴

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While there are programs in place to prevent and address these problems, very few borrowers take advantage of them. For student loan borrowers struggling with repayment, debt relief assistance can reduce monthly payments. But feelings of intimidation, a very human tendency to avoid dealing with tough problems as long as possible, and a difficult application process all prevent a significant number of borrowers from tapping into existing financial help early enough—or at all—to avoid financial trouble.

Some of these challenges stem from choices at the beginning of the repayment process. Upon leaving college, borrowers are all defaulted into the same 'standard' repayment plan, and some may not switch to better-suited plans until after they experience trouble making their first few loan payments.

Thank you for giving us an incentive to think about our financial health, even though, of course, it's something that we ought to be thinking about regardless."

—Student, Valencia College

Working with institutions that serve college loan borrowers, ideas 42 devised behaviorally-informed strategies to help students better consider information about the type of repayment plan they need and boost their efforts to make use of federal programs available for delinquent borrowers. These strategies have significant implications for the financial health and wellbeing of millions of students.

In one of our interventions, students more often considered important features in their choice of repayment plans at **Valencia College** when using our redesigned table of loan repayment options. The results from this lab study also highlight the importance of changing current practice to prompt students to make an active choice in repayment plans at the earliest opportunity rather than waiting until they are in financial trouble. (See project spotlight p.50)

Borrowers returned applications for income-based debt relief programs up to 48% more at **Great Lakes Higher Education Guaranty Corporation** in Madison, Wisconsin. We used a combination of personalized outreach, email reminders, and hassle-reducing step-by-step instructions in an effort to help borrowers enroll in federal distressed debt relief programs. (See project spotlight p.52)

Making Informed Choices About Loan Repayment

Valencia College

Making informed choices about loan repayment options, even before leaving college, may prevent borrowers from getting behind on payments. Unfortunately, most borrowers typically stay on the



default plan, which is the 'standard repayment plan' offered by the federal government, regardless of whether it is actually the option that makes the most sense for their personal financial situation.

The standard plan has the lowest amount of interest paid over time, but the highest initial monthly payment. Other plans, which provide the option to lower monthly payments, establish payments based on income. Though they extend the loan's repayment term, these plans may actually be a better fit for some borrowers.

Under the current federal student loan system, students are automatically enrolled in the standard plan upon graduation or leaving college and then must wait until the end of their grace period six months later to make a switch. Many students forget to switch their plan, or do so only after they've fallen behind on their payments.

At Valencia College, nearly a third of loan delinquencies occur within 60 days of starting the repayment process, which is also when borrowers have the highest rate of using the standard plan. Loans in repayment on this plan were three times more likely to become delinquent.

ideas42 set out to test the premise that clearer information about the different student loan plans could help borrowers better understand the options and make more informed choices, possibly preventing missed payments or loan default.

The authoritative source for information on student loan repayment options is the U.S. Department of Education's website. But the online table summarizing plans can be hard to interpret, as it contains a significant amount of financial jargon and comparisons across key aspects of the plans are difficult to make.

We redesigned the Department of Education's online table to simplify the attributes of each plan and to allow for the easy comparison of factors like monthly payment amount, length of repayment, and total interest accrued. We replaced blocks of words with numbers to make that comparison easy. To avoid influencing students' choices with plan names like 'standard,' we renamed the options using colors.

In 2015, we randomly assigned 400 Valencia student volunteers to view either the redesigned table or the Department of Education's existing table and compared the way the two groups selected plans. More students who saw the redesigned table reported that they considered important plan attributes such as the total interest to be paid (80% vs. 66%)** and remembered key factors such as the repayment term (93% vs. 75%).** Similarly, fewer students reported taking into account the name of the plan (8% vs. 17%),** demonstrating the unintentional salience and influence of plan names in the Department of Education's table.

Repayment Plan	How Long You'll Pay For	How Much You'll Pay Every Month (The First & Final Months Amounts)	How Much You'll Pay In Interest (In Addition to the \$30,000 Loan)
Blue	10 years	\$311	\$11,429
Red	14 years	\$263 to \$305 (Increases or decreases depending on your income)	\$16,678
Green	25 years	208	\$32,468
Purple	10 years	\$179 to \$538 (Increases over time)	\$14,580

Example: Redesigned Repayment Plan Table

Interestingly, students in both groups still chose the standard plan at the same rate (66%-67%). This rate is telling because typically students are entered into the standard plan automatically without actively being asked to choose. Initially, this is likely to be nearly 100% of students. The 66%-67% of participants choosing the standard plan in our experiment is actually much closer to the 56% of the actual borrower population that eventually ends up on the standard plan—the majority of whom are already many years into repayment. This finding suggests that prompting students to actively choose a plan at the start gets them closer to their ultimate plan preference as borrowers.

A few behaviorally-informed changes, such as making information concise and easily comparable, can make a real difference in how students consider their loan repayment plan options, facilitating a better match for borrowers. Ultimately, creating a moment where students actively choose their repayment plan could go even further in preventing financial struggles.



Boosting Timely Loan Repayment

Great Lakes Higher Education Guaranty Corporation

Federal programs to help loan borrowers who have fallen behind on payments are underused, despite the fact that they can help postpone or lower monthly payments to avoid eventual credit score damage or wage garnishment. Among borrowers who were at least 60 days delinquent in repayment and whose data was forwarded to GREAT LAKES the Great Lakes Higher Education Guaranty Corporation, a nonprofit student loan



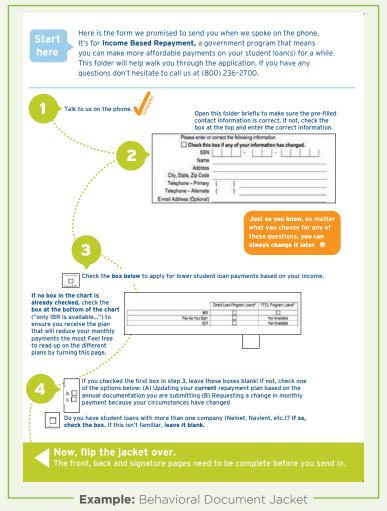
guarantor, less than one-fifth of eligible borrowers complete the paperwork to sign up for one of three assistance programs: forbearance, deferment, or income-based repayment.

While exploring the Great Lakes application processes, ideas 42 found several barriers that discouraged people from tapping into these benefits. Borrowers receive calls from an unidentified phone number and

often don't pick up-in fact, less than 5% of the millions of calls the company makes annually are answered by a borrower. When the Great Lakes caller identifies themselves as a debt collector, as required by law, many borrowers hang up. Finally, the multi-page, jargon-filled federal application for debtrelief programs can be daunting.

We set out to redesign the application process based on four goals that can be applied to many similar scenarios: make borrowers aware of Great Lakes and how it can help with delinquent debt before receiving a phone call, show them assistance is important and attainable, make the application form simpler and easier to complete, and prompt borrowers to take action rather than procrastinating.

To accomplish this, we created new outreach materials for almost 40.000 Great Lakes borrowers from April 2015 to March 2016. The first email sent to borrowers contained an introduction from a representative named "Bo" along with his photo. A personal touch and a friendly tone can build familiarity and trust in an intimidating situation.



We also redesigned an email sent to borrowers after they spoke with a Great Lakes representative and committed to submitting an application for one of the debt relief programs. The new email included a short, manageable checklist of the additional documents borrowers needed to gather for their application. Within this same email, Great Lakes borrowers also received both the application form and a color-coded checklist to guide them in filling it out.

Those who got the application by mail were sent the form in a "document jacket" to help simplify the process. The document jacket used cut-out windows to expose only the places that needed to be filled in, covering the jargon and extraneous language in the application. Simple instructions and friendlier aesthetics made the process more inviting and reduced the hassle of trying to figure it all out alone. We also added two email reminders, sent by Bo, timed specifically for five days and ten days after the borrower's call with a Great Lakes representative.

The results highlight how such behaviorally informed changes can have impact. Among borrowers applying for the income-based repayment (IBR) program—the most demanding of all the applications, yet paradoxically the one that borrowers in financial hardship are the most likely to need to fill out—returned applications jumped by 13% overall (from 22.8% to 25.8%),* with the most profound increase, 48% (from 14.5% to 21.4%),* for those who received the mailed document jacket. Across the entire sample, receiving the personalized introductory email before the call led to a 5% increase (from 3,641 to 3,837)† in borrowers proactively calling Great Lakes, and commitments to enroll in any of the three debt relief programs went up 4% (from 4,354 to 4,506).†

With the help of automation, the retooled communication package was low-cost and took minimal effort. The document jackets, which cost \$0.33 each, highlighted a significant return on investment. Scaling up to the full Great Lakes Guaranty population, each additional IBR application completed would cost around \$12 in total.

The tools used in this intervention can be applied to nearly any complex program enrollment or application process. The more complex or convoluted such a process is, the more critical it is to simplify language, highlight key action steps, and reduce hassles around gathering and sending documents. Engaging with borrowers in ways that address their needs and fears can determine whether they ultimately are able to access critical benefits such as federal student debt relief programs.



*= significant at 90% level * = significant at 95% level

The Long Road to Postsecondary Success

pplying behavioral science to age-old problems in education provides a new lens with which to identify and tackle the many barriers students face on their road to college success. Individually and collectively, these seemingly small barriers prevent students from successfully completing college and achieving their academic, professional, and personal goals. By addressing these barriers using targeted solutions informed by the student perspective, we have taken steps towards addressing America's completion crisis.

Behavioral science offers a set of tools to solve postsecondary barriers in ways that are often easier and less expensive to implement than existing alternatives, providing a realistic way for institutions to improve the lives of their students. As efforts to increase access to a college education gain traction, helping students complete college and reap the benefits of a degree will be more important than ever.

This work is just the beginning. There is still massive potential to use behavioral insights to support students in their efforts to earn a degree in many more ways. There are many other significant issues on the long road to college completion, but the solutions described in this report have covered a good distance.

We created this report for a number of reasons: to share these solutions with postsecondary institutions, so they can begin to adopt similar strategies to help their students succeed; to share them with policymakers, who have the leverage to enact system-wide reform; and ultimately, to inspire and encourage everyone who has an interest in helping students complete college to approach postsecondary education with a different lens. Only by identifying and targeting each individual barrier that hinders student success can we solve the college completion crisis.

66

It will be worth it in the end especially to see your parents smile and give you hugs once you get that degree."

-Student, SF State

Where We Need To Go From Here:

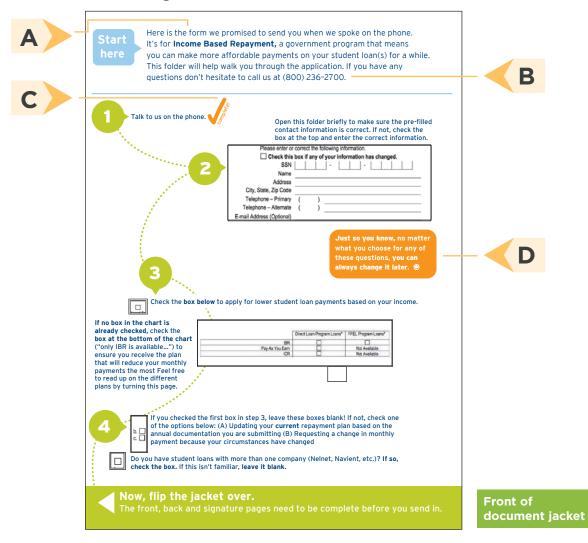
A New Vision For Postsecondary Education

For many of the challenges we tackled, our interventions were designed as simple solutions to complex problems in existing systems or programs. Confusing class registration systems, competing demands on time, and difficulties finding social belonging hinder millions of new students. While light-touch behavioral interventions can begin to address these barriers, many of them should be seen less as long-term answers and more as evidence that these problems are solvable with deeper change. In an ideal world, institutional systems and structures themselves would be designed with the student perspective in mind, with behavioral insights integrated within rather than patching around them. To adopt the behavioral lens means to see the systems of higher education in an entirely new light: why not create smart registration platforms that recommend a course schedule based on major and time constraints? Why aren't classes paired with flexible study blocks so students can better anticipate how to manage across school, work, and family obligations? Why are students automatically placed on a repayment plan that may overburden their monthly budget? These questions and hundreds more will need to be answered if we want to help millions more students finish college.

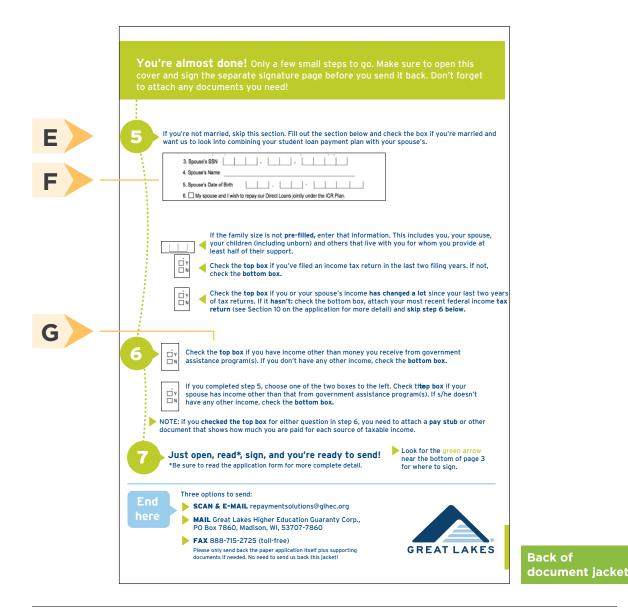
APPENDIX

In this section, we provide the designs used in a sampling of our projects along with an explanation of the key behavioral elements in each. For brevity, we have selected four projects that run across the spectrum of the types of interventions and behavioral drivers in this report.

Great Lakes Higher Education Guaranty Corporation: Document Jacket Design



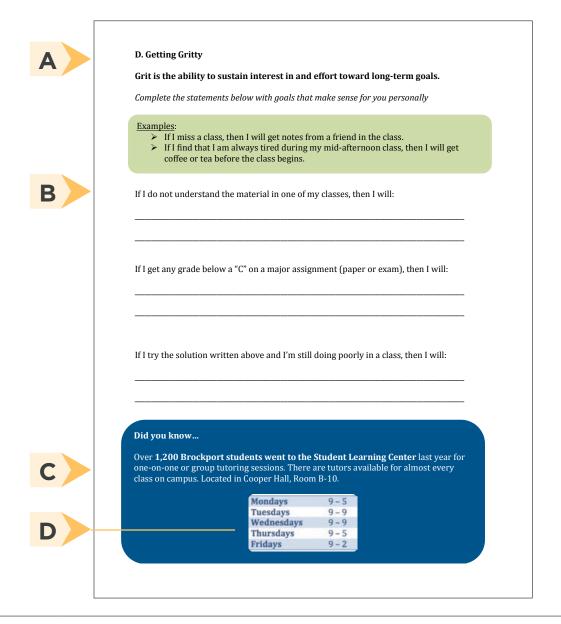
- A Highlights the explanation and benefits of the repayment program to concretize the intention and motivation to fill it in
- > B Phone number reduces hassle to access help if needed
- Checkmark creates sense of progress towards goal by marking one action
 C as complete, increasing likelihood that borrower will continue through checklist
- D Friendly and relatable language may increase completion of form



- > E Numbered list breaks down form into simple actionable sequence of steps, which helps encourage follow through
- Cutouts focus borrowers on the parts of the form they need to fill in,

 F reducing potential of being overwhelmed or intimidated and reducing the likelihood that they will skip key questions
- Explanations make filling in the form simpler and faster by using clear
 G language and providing extra context; uses "bolding" to draw attention to important aspects of a decision

The College at Brockport, State University of New York: Workshop Activity



- PA Reframes potential academic challenges as situations where students can use grit to succeed, putting locus of control in students' hands
- Activity prompts students to develop plans for how to manage several common > B academic challenges, making it more likely that students will follow through on good intentions when a stressful situation arises
- Normalizes use of tutoring center, correcting misperceptions that students

 C may be unique in needing help and making it more likely that students will use tutoring services
- Makes it easier to access help by providing location and open hours of tutoring center

E	Did you know If you consider overall college costs for the average Brockport student, each individual class session costs \$67. That means for every class you miss you're paying \$67 for nothing.
	If I miss a class, then I will:
	If I'm considering withdrawing from a course, then I will:
	Create your own! Identify an obstacle that might prevent you from getting the grades you want. Write it in the "if" portion of the statement. Then come up with a potential solution and write it in the "then" portion.
F	then

- Increases motivation to attend class by quantifying the financial cost of each **>** E missed class
- Option to create a personally relevant example may increase engagement with > F the content and address challenges that are specific to the student

Community College of Philadelphia: Calendar Plan-making Activity

	STEPS TO BUILDING A SUCCESSFUL SCHEDULE									
A B	2: T	(A) How many hours are y (B) What other commitme (ex. caring for a family mer (C) Draw in your weekly c RANSPORTATION T (A) Including traffic and p (B) Based on this, what ti LASSES AND HOMI (A) Will you be part-time	rou planning to ents do you have nber, community a ommitments or IME arking, how lon me can you get EWORK or full-time (cir	work this semese?	to get to campue morning?	us?	_ _ _			
	(B) How many classes are you planning to take this semester?(C) Circle your number of classes (below). On the second row is the number of hours you will need for homework and studying every week. Circle that as well.									
C		Classes Homework Hours	6	12	18	24				
		(D) Successful students s								
D		able to meet this study				witt you be	_			
	, R	EGISTER FOR CLAS	SSES							
E	4.	(A) On the computer in front of you, register for your classes. Refer to your white packet if you need help with any of the steps.								
		(B) Draw in the weekly cla(C) Draw in the time it will next page.	ass times you ju	st selected on t		1 3				
F		(D) Draw in your weekly h Make sure to put in th				he next page.				
G	5 : ^c	(A) Does this weekly plan (B) If not, you need to adjuin BG-07 after the SOa	HEDULE feel manageak	ole for the entire	e semester? er commitments	Yes No s. See a counselor				
	Commu	nnity College <i>of</i> Philad	lelphia			www.ccp.ed	lu			

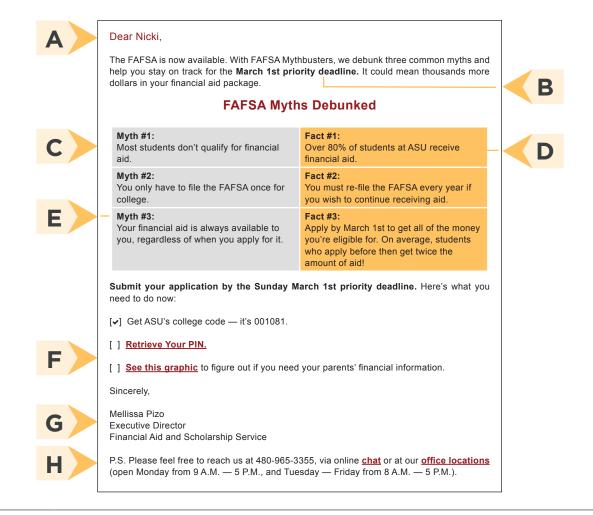
- Prompts students to consider job and family obligations before scheduling the rest of their time, which can be more flexible
- Makes getting to class on time salient, helping students to schedule their

 B classes for a time they can make and also to plan to arrive on time increasing likelihood that they will in fact arrive on time

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
7:00 AM				-			
8:00 AM	Drop off Ben at School		Drop off Ben at School		Drop off Ben at School		
	Travel		Travel		Travel		
9:00 AM	Anatomy	Travel	Anatomy	Travel	Anatomy		
10:00 AM						School Work	
11:00 AM		School Work Campus Library	Library	School Work Campus Library	0 1811	Campus Library	
12:00 PM	General Biology		General Biology	_	General Biology		
1:00 PM	School Work		School Work		School Work		
2:00 PM	Campus Library		Campus Library		Campus Library		
3:00 PM	Math	Science Club	Math	Science Club	Math		
4:00 PM			_				
5:00 PM	Travel	Philosophy	Travel	Philosophy	Travel		
6:00 PM							
7:00 PM							School Wor Campus Libr
8:00 PM	Work Shift	School Work Campus Library	Work Shift	School Work Campus Library	Work Shift		
9:00 PM							
10:00 PM							
11:00 PM							
12:00 AM							
	Class hours: 4.5	Class hours: 2.5	Class hours: 4.5	Class hours: 2.5	Class hours: 4.5		
	Homework hours: 2	Homework hours: 6	Homework hours: 2	Homework hours: 6	Homework hours: 2	Homework hours: 4	Homework hou

- Provides a simple (and aspirational) rule of thumb for how many hours students should spend studying each week
- D Instills a sense of commitment, which may make students more likely to follow through on initial intentions to study
- Helps students register for class times with the rest of their commitments in mind
- Prompts students to plan for the appropriate homework time they indicated they would need
- Provides information about how to reach a counselor immediately after the session if needed

Arizona State University: First of eight FAFSA emails



- > A Personalized greeting may encourage readers to continue reading email
- B Increases salience of deadline through bolding and placement at top of email, making it more likely that students will notice it
- Corrects commonly held misconceptions about who qualifies for aid in friendly, easily understandable language
- Shows widespread use of financial aid so that students feel it is acceptable and normal for them to apply for and receive aid
- Makes clear the potential to lose full aid award, increasing motivation to file before deadline
- F Actionable guidance includes links to necessary information and next steps, while keeping the checklist short and manageable
- Coming from a real person rather than an unidentified entity (e.g. the Financial Aid Office) makes email feel more personal, increasing engagement with content
- Postscripts are among the top things people read in letters or emails, and here we included several outreach options to make it easier to access help

Endnotes

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