✓ Student Loans

Materials Required

Question 1 tailored to one's institution
iOS app downloaded and installed or deployed on all devices
Handouts (i.e., course material) for each participant

Distribute all handouts, and as you do, discuss:

Six months after students graduate college, they will be required to start repaying their student loans, if any, and to do so monthly. We will focus on helping students to start thinking about that. If you are not a student, either imagine that you are one, or consider the scenario that you are paying your child's tuition. We will work on keeping track of how much money you may be borrowing from the government and planning how you can repay what you borrowed.

Skim questions 1 through 6; mention to your audience that it need not use real numbers, only numbers that are reasonable. Share some quick examples of "reasonable" numbers. The audience is permitted to use calculators, work in groups of two and round its results. State:

Please get started. If you have any questions or concerns, please feel free to ask or inform me, and I will be here to help. Questions 7 through 15 are optional.

Wait 10 to 15 minutes, then say:

After you complete the set of questions, you are welcome to keep them. You are welcome to keep the app, too. If you, instead, would like to return the set of questions to me, I will be happy to provide you feedback.

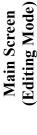
If any participants complete bonus questions 7 and 8, mention that you hope he or she will identify the answer to question 6 as a "sweet spot." If anyone completes questions 9 to 14, mention that you hope they will find the questions more compelling, and that they try to raise their monthly payment more.

iOS App Overview for Instructors' Personal Reference

Screenshots

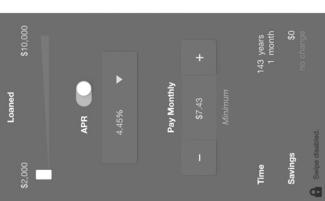




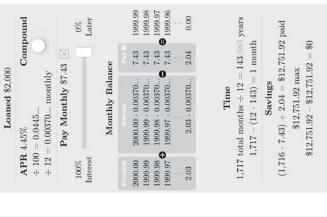












Once the app loads, it plays a video that illustrates how one can utilize the app. Close the video to access the main screen. In the main screen, one can move the thumb of the Loaned slider, press on the thumb of the APR switch, select a different percentage, or click on either the minus or plus button. Whenever one does so, the Pay Monthly, Time, Savings and change in Savings amounts are computed automatically. One can reset the amounts by either pressing and holding the minus button or—in editing mode—entering 0 for the Pay Monthly amount. Press on the padlock icon to enter the editing mode. In editing mode, one can also edit the slider, percentage, increment timers, and minimum payment; one can enable the ability to swipe leftward, too. By default, the minimum payment is the minimum for repaying student loans within ten years.

If swiping is enabled, one can swipe leftward–regardless if one is in editing mode–to view how estimates were calculated (i.e., to access the mathematics screen). In the mathematics screen, one can also examine how Time and Savings amounts would vary, depending if interest was compounded and on the percentage of interest one paid monthly. By default, interest is not compounded and one pays 100% interest monthly. Minimize the Pay Monthly amount, at any time, by pressing . Swipe rightward to return to either the main screen or main screen in editing mode. 4.45% is the Direct Loan rate for July 1, 2017 to June 30, 2018. The current interest rate is 4.53%. The app's build is 2.7.3 (141), where "2.7.3 (141)" stands for major version 2, minor version 7, revision 3 and build 141.



Directions: please answer the following questions WITHOUT using the app.

1. What is your yearly cost of tuition? (excluding fees)		\$
	,	

Feel free to use the following chart to help you:

[SCHOOL NAME] TUITION RATES (as of [Season] [Year])	Full Time 12-18 credits/ equated credits	Part-Time
Residents of New York City who are:	1 1	
Matriculated Students	\$2400 per semester	\$210 per credit
Non-Matriculated Students	\$265 per credit	\$265 per credit
Non-Residents of New York City who are:		
Residents of New York State with B-81 on file	\$2400 per semester	\$210 per credit
Residents of New York State without B-81 on file	\$320 per credit	\$320 per credit
Out-of-State Residents	\$320 per credit	\$320 per credit
International Students	\$320 per credit	\$320 per credit
Non-Matriculated Students	\$420 per credit	\$420 per credit

Source: [URL, tailor the chart too]

Assume you borrow money from the government to pay for your degree. Six months after you graduate college, you will be required to start paying the government back monthly.

3. How long will it take to pay the government back? (excluding interest)

year(s)	month(s)

Examples:

A reasonable guess is fine.

$$5,000 \div 200 = 25 \text{ months}$$
 $25 = 2 \text{ years } 1 \text{ month}$
 $7,650 \div 250 = 30.6 \text{ months}$ $\uparrow 31 = 2 \text{ years } 7 \text{ months}$
 $3,132 \div 300 = 10.44 \text{ months}$ $\uparrow 11 = 11 \text{ months}$

2. How much money can you afford to pay back each month?

[&]quot;Matriculated" means to be enrolled in a degree program.

[&]quot;B-81" is a Certificate of Residence.

1gno	ore savings, for now.		year(s)	month(s)
* N * P	who help you get started: Move the thumb of the slider, to select an estimate of the slider, to select an estimate of your loan. If you have more than one type of loan or you if you are unsure about your rate, choose 4.53 oress — or + to select a monthly payment nearest of o edit the slider, interest rate or monthly payment.	have multiple loans % since Direct Loan st to yours.	, select the rate for the as are more common.	
5. Con	npared to #3, is your result for #4 reasona			
(exp	lain)			
Feel	free to consult a partner.			
repayn Man	rease your monthly payment gradually. He ment does not take so long? The property answers are possible. The property answers are possible amounts, is fine.	ow much <i>should</i>	you pay monthly,	so that your

If you ever struggle to make payments, you <u>can</u> contact your lenders and negotiate with them.

Bonus Questions — app^{\checkmark} Directions: please answer the following questions USING the app.

Questions 7 through 8 reinforce question 6.		
7. Reduce your monthly payment to the minimum. From much money can you save? To see how the app calculates savings, press the padlock icon; enable the ability to swipe; and swipe leftward.	-	+ once. How \$
8. Press + some more times. Does paying <i>a lot</i> more make <i>Hint: the difference in savings will decrease exponentially</i>		
Press the padlock icon, and change the minimum to ab. Note: The 10-year minimum is the minimum for rep NOT for repaying student loans for at least ten year	paying student loans	
9. Reduce your monthly payment to the absolute minin the government back. Do you see why lenders set time	•	
10. Repeat #7 and #8. How much money can you save? difference?	? Does paying <i>a lot</i> mo	
11. How would you answer #6, now? (Would you pay	more?)	(yes/no)

Press the padlock icon; enable the ability to swipe; and swipe leftward.

12. Reduce your monthly payment to the absolute minimum, again. Pay less interest each month. In other words, pay more principal. Do you save any money? Why or why not?
(yes/no)
(explain)
Press and hold monthly balance numbers, to magnify them. Click on ① for a breakdown of each payment.
13. Repeat #12, but compound the interest. Do you save any money? Less or more money?
(yes/no)
(explain)
14. Knowing, overall, how interest affects your ability to pay the government back, how would you answer #6 now? (Would you pay more?)
(yes/no)
Question 15 is asked purely to provoke discussion.
15. Do you save any money, if you pay more than the minimum but are not charged interest? Return to the main screen, and turn the APR switch off.
(yes/no)