

Variable Recodes Used in the Analyses for the National Report, *A Matter of Degrees: Engaging Practices, Engaging Students.*

CCSSE - Promising Practices Items

Before conducting the ANCOVA analyses, the promising practice variables were recoded into new dichotomous variables indicating whether a student participated in the practice or not. The new variables were recoded such that the reference group [coded 0 (zero)] consisted of the students who did not participated in the practice. For items where one of the response options was "Not Applicable," students who selected this response option were excluded from the analysis involving that item.

Promising Practices Items from the CCSSE Promising Practices question set

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
1. During the current term at this college, I completed registration before the first class session(s).	COLLQ2623	1 = Yes; I was registered for ALL of my courses before the first class session(s)	1 = Registered for ALL of my courses before the first class meeting
		2 = Mostly; I was registered for MOST of my courses before the first class session(s)	0 = Did not register for ALL of my classes before the first class meeting
		3 = Partly; I was registered for SOME of my courses before the first class session(s)	
		4 = No; I was NOT registered for ANY of my courses before the first class session(s)	
2. The ONE response that best describes my experience with orientation when I first came to this college is:	COLLQ2624	1 = I took part in an online orientation prior to the beginning of classes	1 = Participated in some form of orientation
		2 = I attended an on-campus orientation prior to the beginning of classes	
		3 = I enrolled in an orientation course as part of my course schedule during my first term at this college	0 = Did not participate in orientation
		4 = I was not aware of a college orientation	
3. During my first term at this college, I participated in a structured experience for new students (sometimes called a "freshman seminar" or "first-year experience").	COLLQ2628	1 = Yes, in my first term at this college	1 = Participated in a structured experience (FYE/, Freshman Seminar) during my FIRST term at this college
		2 = Yes, in my first AND in at least one other term at this college	
		3 = Yes, but NOT in my first term at this college	0 = Did not participate in a structured experience during my FIRST term at this college
		4 = No, I did not	

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
4. During my first term at this college, I enrolled in an organized "learning community" (two or more courses that a group of students take together).	COLLQ2629	1 = Yes, in my first term at this college 2 = Yes, in my first AND in at least one other term at this college	1 = Enrolled in an organized learning community during my FIRST term at this college
		3 = Yes, but NOT in my first term at this college 4 = No, I did not	0 = Did not enroll in an organized learning community during my FIRST term at this college
5. During my first term at this college, I enrolled in a student success course (such as a student development, extended orientation, student life skills, or college success course).	COLLQ2630	1 = Yes, in my first term at this college 2 = Yes, in my first AND in at least one other term at this college	1 = Enrolled in a student success course during my FIRST term at this college
		3 = Yes, but NOT in my first term at this college 4 = No, I did not	0 = Did not enroll in a student success course during my FIRST term at this college
6. At this college, I participated in one or more accelerated courses/fast-track programs to help me move through developmental/basic skills/college prep requirements more quickly. ¹	COLLQ2608	1 = Yes, in my first term at this college 2 = Yes, in my first AND in at least one other term at this college	1 = Participated in one or more accelerated courses/fast-track programs during my FIRST term at this college
		3 = Yes, but NOT in my first term at this college 4 = No, I did not	0 = Did not participate in one or more accelerated courses/fast-track programs during my FIRST term at this college
7. During the current term at this college, my instructors clearly explained a class attendance policy that specified how many classes I could miss without penalty.	COLLQ2609	1 = ALL of my instructors explained a class attendance policy	1 = During the current term at this college ALL of my instructors at this college clearly explained a class attendance policy
		2 = MOST of my instructors explained a class attendance policy	0 = During the current term at this college AT LEAST ONE of my instructors DID NOT clearly explain a class attendance policy
		3 = SOME of my instructors explained a class attendance policy	
		4 = NONE of my instructors explained a class attendance policy	
8. Before I could register for my first term at this college, I was REQUIRED to take a placement test (ACCUPLACER, ASSET, COMPASS, etc.) to assess my academic skills in reading, writing, and/or math.	COLLQ2610	1 = Yes, and I took it	1 - Before I could register for my first term at this college I was REQUIRED to take a placement test AND I TOOK IT
		2 = Yes, it was required, but I did NOT take it 3 = No, it was not required	0 = Did not take a placement test at this college whether it was required or not

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
9. I became aware that I was required to take a placement test (ACCUPLACER, ASSET, COMPASS, etc.) at this college:	COLLQ2611	1 = More than a month before taking the test	1 = I became aware that I was required to take a placement test more than a month before taking the test
		2 = About 1 to 4 weeks before taking the test	0 = I became aware that I was required to take a placement test less than one month before taking the test
		3 = About 1 to 6 days before taking the test	
		4 = The same day I took the test	
10. While I was in high school, besides taking the SAT or ACT, I completed this college's placement test (ACCUPLACER, ASSET, COMPASS, etc.) to assess my academic skills in reading, writing, and/or math.	COLLQ2612	5 = Not applicable; I did not take a placement test	Students who indicated placement test was not applicable were excluded from the analyses that involved this item.
		1 = Yes	1 = While in HS, YES, I did take this college's placement test
		2 = No	0 = I did not take this college's placement test in HS or I do not remember if I took it
3 = I don't remember			
11. Before enrolling at this college, I prepared for this college's placement test (ACCUPLACER, ASSET, COMPASS, etc.) in the following way:	COLLQ2613	1 = On my own using online or printed materials provided by the college	1 = Before enrolling at this college, I prepared for this college's placement test on my own using online or printed materials provided by the college
		2 = Participating in a brief (8 hours or less), intensive brush-up/refresher workshop	
		3 = Participating in a multi-day or multi-week brush-up/refresher program (often held during the summer before fall enrollment)	0 = Before enrolling at this college, I did not do anything to prepare for this college's placement test
		4 = I did not do anything to prepare for this college's placement test	
5 = Not applicable; I did not take a placement test	Students who did nothing to prepare for the placement test or who did not take a placement test were excluded from the analyses involving this item		

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
12. If I used resources from this college or one of the college's brush-up/refresher experiences to prepare for the placement test, I found it:	COLLQ2614	1 = Very helpful 2 = Helpful 3 = Somewhat helpful	1 = Students who used test prep resources found them helpful
		4 = Not helpful	0 = Students who used test prep resources and did not find them helpful
		5 = Not applicable; I did not use this college's test prep resources	Students who indicated they did not use the college's test prep resources were excluded from the analyses involving this item
13. The results of the placement test I took at this college indicated that I needed to take a developmental/basic skills/college prep course...	COLLQ2615	1 = In MORE THAN ONE academic skills area (reading, writing, and/or math) 2 = In ONE academic skill area (reading, writing, or math)	1 = The results of the placement test indicated that I needed to take a developmental course in ONE OR MORE academic skill area
		3 = In none of the academic skill areas (reading, writing, or math)	0 = The results of the placement test indicated that I did not need to take any developmental courses
		4 = Not applicable; I did not take a placement test	Students who indicated they did not take a placement test were excluded from analyses involving this item
14. Because my placement test results indicated that I needed to take at least one developmental/basic skills/college prep course, I was...	COLLQ2616	1 = TOLD that I was REQUIRED to take MORE THAN one of these courses in my first term 2 = TOLD that I was REQUIRED to take ONE of these courses in my first term	1 = Student told they were REQUIRED to take ONE OR MORE developmental courses during their first term
		3 = TOLD that I should or could take one of these courses, but I was NOT required to in my first term	0 = Student was told they should or could take a developmental course in their first term, but it was not required
		4 = Not applicable; my placement test results did not indicate that I needed to take any of these courses 5 = Not applicable; I did not take a placement test	Students who said their placement test did not indicate they needed to take a placement or who said they did not take a placement test were excluded from the analyses involving this item

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
15. I was TOLD that I was REQUIRED to take a developmental/basic skills/college prep course in my first term, and I...	COLLQ2617	1 = DID enroll in MORE THAN ONE of these courses 2 = DID enroll in ONE of these courses	1 = Student was told they were required to take at least one developmental course during their first term and did enroll in one or more developmental courses
		3 = DID NOT enroll in any of these courses	0 = Student was told they were required to take at least one developmental course during their first term but did not enroll in any of these courses
		4 = Not applicable	Students who said they were not required to take a developmental course during their first term were excluded from the analyses involving this item
16. Before the end of my first term at this college, an advisor helped me develop an academic plan (a personalized plan with a defined sequence of courses for completing a college certificate or degree and/or for transferring to a 4-year college or university).	COLLQ2618	1 = Yes	1 = Yes, an advisor helped the student develop an academic plan before the end of their first term
		2 = No 3 = I'm still in my first term; I have NOT YET developed an academic plan	0 = An advisor did not help the student develop an academic plan during their first term or the student was still in their first term at this college
17. Someone at this college contacts me if I am struggling with my studies to help me get the assistance I need.	COLLQ2619	1 = Yes	1 = Yes, someone at this college contacts me if I am struggling with my studies to get me the assistance I need
		2 = No	0 = No, someone at this college has not contacted me when I am struggling with my studies to get me the assistance I need
		3 = Not applicable; I have not experienced academic difficulties at this college	Students who said they are not struggling academically were excluded from analyses involving this item
18. During the current academic year at this college, I participated in required group learning (experiences such as interacting with a specific group of students inside or outside the classroom, studying together, and/or doing group assignments or projects).	COLLQ2620	1 = Never	0 = During the current academic year at this college I NEVER participated in required group learning
		2 = Less than 1 time a week 3 = 1 to 2 times a week 4 = 3 to 4 times a week 5 = More than 4 times a week	1 = During the current academic year at this college I participated in required group learning at least once

Item		Variable	Responses
Item Text	Variable	Original Response Options	Recoded response interpretations
19. During the current academic year, I participated in tutoring provided by this college.	COLLQ2621	1 = Never	0 = During the current academic year, I have NEVER participated in tutoring provided by this college
		2 = Less than 1 time a week 3 = 1 to 2 times a week 4 = 3 to 4 times a week 5 = More than 4 times a week	1 = During the current academic year, I participated in tutoring provided by this college at least once
20. During the current academic year at this college, I participated in supplemental instruction/supplemental learning (extra class sessions with the instructor or an experienced student).	COLLQ2622	1 = Never	0 = During the current academic year, I NEVER participated in supplemental instruction/supplemental learning
		2 = Less than 1 time a week 3 = 1 to 2 times a week 4 = 3 to 4 times a week 5 = More than 4 times a week	1 = During the current academic year, I participated in supplemental instruction/supplemental learning at least once

NOTES:

¹ On Item 6 students who were not classified as developmental were excluded from the analyses including this item.

The main *CCSSE* survey also includes items that ask about participation in promising practices. The following table provides information about how these items were recoded for use in the National Report analyses.

Promising Practice Items from the main *CCSSE* survey

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
Item 8: Which of the following have you done, are you doing, or do you plan to do while attending this college?			
8a. Internship, field experience, co-op experience, or clinical assignment	INTERN	1 = I have not done nor plan to do 2 = I plan to do	0 = Student has NOT participated in an internship, field experience, co-op experience, or clinical assignment at this college
		3 = I have done	1 = Student has participated in an internship, field experience, co-op experience, or clinical assignment at this college
8f. Study skills course	STUDSKIL	1 = I have not done nor plan to do 2 = I plan to do	0 = Student has NOT participated in a study skills course at this college
		3 = I have done	1 = Student has participated in a study skills course at this college
8h. College orientation program or course	ORIEN	1 = I have not done nor plan to do 2 = I plan to do	0 = Student has NOT participated in an orientation program at this college
		3 = I have done	1 = Student has participated in an orientation program at this college
8i. Organized learning communities (linked courses/study groups led by faculty or counselors)	LRNCOMM	1 = I have not done nor plan to do 2 = I plan to do	0 = Student has NOT participated in a learning community at this college
		3 = I have done	1 = Student has participated in a learning community at this college

In addition to the *CCSSE* Promising Practices items from the additional question set and the main survey, several other variables used in the models as covariates were also recoded. Several of the variables were defined as dichotomous in the original data set; however, they are recoded here to 0/1 values instead of 1/2 values. The group defined by the zero value is the default reference group in SAS PROC GLM. The table below shows how these variables were recoded.

Other *CCSSE* variables recoded for use as covariates

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
2. Thinking about this current academic term, how would you characterize your enrollment at this college?	ENRLMENT	1 = Less than full-time	1 = Less than full-time student
		2 = Full-time	0 = Full-time student
21. At this college, in what range is your overall college grade average? ¹	GPA	1 = Pass/fail classes only 2 = Do not have a GPA at this school	Students taking courses pass/fail only or who said they do not have a GPA at this college were coded as missing and excluded from the analyses involving this variable
		3 = C- or lower	0 = Self-reported GPA is less than a C
		4 = C 5 = B- to C+ 6 = B 7 = A- to B+ 8 = A	1 = Self-reported GPA is a C or better
23. How many total credit hours have you earned at this college, not counting the courses you are currently taking this term?	TOTCHRS	0 = None 1 = 1-14 credits 2 = 15-29 credits	0 = Less than 30 credits earned at this college
Taken or plan to take Developmental coursework / Have not taken and do not plan to take Developmental coursework ²	DEVELOPMENTAL	1 = Non-Developmental	0 = Non-developmental student
		2 = Developmental	1 = Developmental student
First-Generation/Not First-Generation Students ²	GENERATION	1 = First-Generation	1 = First-generation student
		2 = Not First-Generation	0 = Not first-generation student

¹ GPA was recoded two different ways for the analyses conducted for the National Report: C or better and B or better. Therefore, GPA recode appears twice in this table.

² These variables are derived from several combined survey items and therefore do not have an item number assigned to them.

SENSE - Promising Practices Items

Before conducting the ANCOVA analyses, the promising practice variables were recoded into new dichotomous variables indicating whether a student participated in the practice or not. The new variables were recoded such that the reference group [coded 0 (zero)] consisted of the students who did not participated in the practice. For items where one of the response options was "Not Applicable," students who selected this response option were excluded from the analysis involving that item.

Promising Practices Items from the SENSE Promising Practices question set

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
1. At this college, I completed registration before the first class session(s).	COLLQ275	1 = Yes; I was registered for ALL of my courses before the first class session(s)	1 = Yes, at this college, I registered for ALL of my courses before the first class session.
		2 = Mostly; I was registered for MOST of my courses before the first class session(s)	0 = Did not register for ALL of my classes before the first class meeting
		3 = Partly; I was registered for SOME of my courses before the first class session(s)	
2. At this college, I am participating in a structured experience for new students (sometimes called a "freshman seminar" or "first-year experience").	COLLQ276	4 = No; I was NOT registered for ANY of my courses before the first class session(s)	
		1 = Yes	1 = Yes, I am participating in a structured experience for new students
3. At this college, I am participating in one or more accelerated courses/fast-track programs to help me move through developmental/basic skills/college prep requirements more quickly. ¹	COLLQ277	2 = No	0 = No, I am not participating in a structured experience for new students
		1 = Yes	1 = Yes, I am participating in one or more accelerated courses/fast-track programs
		2 = No	0 = No, I am not participating in one or more accelerated courses/fast-track programs

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
4. At this college, my instructors clearly explained a class attendance policy that specified how many classes I could miss without penalty.	COLLQ278	1 = ALL of my instructors explained a class attendance policy	1 = At this college ALL of my instructors clearly explained a class attendance policy
		2 = MOST of my instructors explained a class attendance policy 3 = SOME of my instructors explained a class attendance policy 4 = NONE of my instructors explained a class attendance policy	0 = At this college AT LEAST ONE of my instructors DID NOT clearly explain a class attendance policy
5. I became aware that I was required to take a placement test (ACCUPLACER, ASSET, COMPASS, etc.) at this college:	COLLQ279	1 = More than a month before taking the test	1 = I became aware that I was required to take a placement test more than a month before taking the test
		2 = About 1 to 4 weeks before taking the test 3 = About 1 to 6 days before taking the test 4 = The same day I took the test	0 = I became aware that I was required to take a placement test less than one month before taking the test
		5 = Not applicable; I did not take a placement test	Students who indicated placement test was not applicable were excluded from the analyses that involved this item
6. While I was in high school, besides taking the SAT or ACT, I completed this college's placement test (ACCUPLACER, ASSET, COMPASS, etc.) to assess my academic skills in reading, writing, and/or math.	COLLQ280	1 = Yes	1 = While in HS, YES, I did take this college's placement test
		2 = No 3 = I don't remember	0 = I did not take this college's placement test in HS or I do not remember if I took it

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
7. Before enrolling at this college, I prepared for this college's placement test (ACCUPLACER, ASSET, COMPASS, etc.) in the following way:	COLLQ281	1 = On my own using online or printed materials provided by the college 2 = Participating in a brief (8 hours or less), intensive brush-up/refresher workshop 3 = Participating in a multi-day or multi-week brush-up/refresher program (often held during the summer before fall enrollment)	1 = Before enrolling at this college, I prepared for this college's placement test on my own using online or printed materials provided by the college
		4 = I did not do anything to prepare for this college's placement test	0 = Before enrolling at this college, I did not do anything to prepare for this college's placement test
		5 = Not applicable; I did not take a placement test	Students who did nothing to prepare for the placement test or who did not take a placement test were excluded from the analyses involving this item
8. If I used resources from this college or one of the college's brush-up/refresher experiences I found them:	COLLQ282	1 = Very helpful 2 = Helpful 3 = Somewhat helpful	1 = Students who used test prep resources found them helpful
		4 = Not helpful	0 - Students who used test prep resources and did not find them helpful
		5 = Not applicable; I did not use this college's test prep resources	Students who indicated they did not use the college's test prep resources were excluded from the analyses involving this item
9. I was TOLD that I was REQUIRED to take a developmental/basic skills/college prep course in my first semester/quarter, and I...	COLLQ283	1 = DID enroll in MORE THAN ONE of these courses 2 = DID enroll in ONE of these courses	1 = Student was told they were required to take at least one developmental course during their first term and did enroll in one or more developmental courses
		3 = DID NOT enroll in any of these courses	0 = Student was told they were required to take at least one developmental course during their first term but did not enroll in any of these courses
		4 = Not applicable	Students who said they were not required to take a developmental course during their first term were excluded from the analyses involving this item

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
10. Based on my academic goals at this college, I believe it will take me about this long to reach them:	COLLQ284	1 = Less than 1 year 2 = 1 to 2 years	1 = Based on my academic goals at this college, I believe it will take me 2 years or less to reach them
		3 = 3 to 4 years 4 = More than 4 years 5 = I don't know	0 = Based on my academic goals at this college, I believe it will take me more than 2 years to reach them
11. I feel that I am on track to reach my academic goals at this college within my expected time frame.	COLLQ285	1 = Strongly agree 2 = Agree	1 = I agree or strongly agree that I am on track to reach my academic goals at this college within my expected time frame
		3 = Not sure 4 = Disagree 5 = Strongly disagree	0 = I am not sure or disagree/ strongly disagree that I am on track to reach my academic goals at this college within my expected time frame
12. Someone at this college contacts me if I am struggling with my studies to help me get the assistance I need.	COLLQ286	1 = Yes	1 = Yes, someone at this college contacts me if I am struggling with my studies to get me the assistance I need
		2 = No	0 = No, someone at this college does NOT contact me if I am struggling with my studies to get me the assistance I need
		3 = Not applicable; I have not experienced academic difficulties at this college	Students who said they are not struggling academically were excluded from analyses involving this item

NOTES:

¹ On Item 3 students who were not classified as developmental were excluded from the analyses including this item.

The main *SENSE* survey also includes items that ask about participation in promising practices. The following table provides information about how these items were recoded for use in the National Report analyses.

Promising Practice Items from the main SENSE survey

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
8. Did you add or drop any classes within the first three weeks of your first semester/quarter at this college?	ADDROP	1 = Yes, without discussing my decision with a college staff member or instructor 2 = Yes, after discussing my decision with a college staff member or instructor	1 = Yes, I dropped at least one class during the first three weeks of my first term with or without discussing my decision with college staff members or instructors
		3 = No, I did not add or drop any courses	0 = No, I did not drop any classes during the first three weeks of my first term with or without discussing my decision with college staff members or instructors
9. Of the courses you enrolled in during your first semester/quarter at this college, how many did you drop after the first day of class?	DROPNO	1 = None	1 = I dropped no courses during my first term at this college after the first day of class
		2 = One 3 = Two 4 = Three 5 = Four or more	0 = I dropped at least one class during my first term at this college after the first day of class
10. When did you register for your courses for your first semester/quarter at this college?	REGCLASS	1 = More than one week before classes began	1 = During my first term at his college, I registered for my courses more than one week before classes began
		2 = During the week before classes began 3 = During the first week of classes 4 = After the first week of classes	0 = During my first term at this college, I registered for my courses during the week before classes or after classes began
12a. Before I could register for classes, I was required to take a placement test (COMPASS, ASSET, ACCUPLACER, SAT, ACT, etc.) to assess my skills in reading, writing, and/or math	REQPTEST	1 = Yes	1 = Yes, before I registered for classes, I was required to take a placement test to assess my skills in reading, writing, and/or math
		2 = No	0 = No, I was not required to take a placement test to assess my skills in reading, writing, and/or math before I registered for classes
12b. I took a placement test (COMPASS, ASSET, ACCUPLACER, SAT, ACT, etc.)	TKPTEST	1 = Yes	1 = Yes, I took a placement test
		2 = No	0 = No, I did not take a placement test

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
14. This college required me to enroll in classes indicated by my placement test scores during my first semester/quarter	REQCLASS	1 = Yes	1 = Yes, The college required me to enroll in classes indicated by my placement test scores during my first semester/quarter
		2 = No	0 = No, the college did not require me to enroll in classes indicated by my placement test scores during my first semester/quarter
17f. An organized "learning community" (two or more courses that a group of students take together)	ENRLOLC	1 = Enrolled	1 = I enrolled in an organized "learning community"
		2 = Not enrolled	0 = I did not enroll in an organized "learning community"

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
Item 18: Think about your experiences from the time of your decision to attend this college through the end of the first three weeks of your first semester/quarter.			
18d. I was able to meet with an academic advisor at times convenient for me	AACONTIM	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, I was able to meet with an academic advisor at times convenient to me.
		4 = Agree 5 = Strongly agree	1 = I agree/strongly agree that, during my first three weeks of my first semester/quarter, I was able to meet with an academic advisor at times convenient to me
18e. An advisor helped me to select a course of study, program, or major	AASELMAJ	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, an advisor helped me to select a course of study, program, or major
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks of my first semester/quarter, an advisor helped me to select a course of study, program, or major
18f. An advisor helped me to set academic goals and to create a plan for achieving them	ACADGOAL	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, an advisor helped me set academic goals and to create a plan for achieving them.
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks of my first semester/quarter, an advisor helped me set academic goals and to create a plan for achieving them.

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
Item 18 (cont.): Think about your experiences from the time of your decision to attend this college through the end of the first three weeks of your first semester/quarter.			
18g. An advisor helped me to identify the courses I needed to take during my first semester/quarter	CRSADV	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, an advisor helped me to identify the courses I needed to take during my first semester/quarter.
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks of my first semester/quarter, an advisor helped me to identify the courses I needed to take during my first semester/quarter.
18h. A college staff member talked with me about my commitments outside of school (work, children, dependents, etc.) to help me figure out how many courses to take	OSCOMM	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, a college staff member talked with me about my commitments outside of school to help me figure out how many courses to take.
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks of my first semester/quarter, a college staff member talked with me about my commitments outside of school to help me figure out how many courses to take.
18i. All instructors clearly explained academic and student support services available at this college	RESOURCE	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks of my first semester/quarter, ALL instructors clearly explained academic and support services available at this college
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks of my first semester/quarter, ALL instructors clearly explained academic and support services available at this college

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
Item 19: During the first three weeks of your first semester/quarter at this college, about how often did you do the following?			
19e. Participate in supplemental instruction (extra class sessions with an instructor, tutor, or experienced student)	SUPINSTR	1 = Never	0 = During the first three weeks of my first term, I NEVER participated in supplemental instruction
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I participated in supplemental instruction at least once.
19g. Work with other students on a project or assignment during class	PINCLASS	1 = Never	0 = During the first three weeks of my first term, I NEVER worked with other students on a project or assignment during class
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I worked with other students on a project or assignment during class
19h. Work with classmates outside of class on class projects or assignments	PREPOUTC	1 = Never	0 = During the first three weeks of my first term, I NEVER worked with classmates outside of class on class projects or assignments.
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I worked with classmates outside of class on class projects or assignments at least once.
19i. Participate in a required study group outside of class	GRPSTUDY	1 = Never	0 = During the first three weeks of my first term, I NEVER participated in a required study group outside of class
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I participated in a required study group outside of class at least once
19j. Participate in a student-initiated (not required) study group outside of class	NRGSTUDY	1 = Never	0 = During the first three weeks of my first term, I NEVER participate in a student-initiated study group outside of class
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I participate in a student-initiated study group outside of class

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recorded response interpretations
Item 20.2: Think about your experiences from the time of your decision to attend this college through the end of the first three weeks of your first semester/quarter. How often did you use the following services?			
20.2a. Academic advising/planning	ACADPUSE	1 = Never	0 = From the time I decided to attend this college through the first three weeks of my first term, I NEVER used Academic advising/planning.
		2 = Once 3 = Two or three times 4 = Four or more times	1 = From the time I decided to attend this college through the first three weeks of my first term, I used academic advising/planning services at least once.
20.2d. Face-to-face tutoring	FFTUSE	1 = Never	0 = From the time I decided to attend this college through the first three weeks of my first term, I NEVER used face-to-face tutoring
		2 = Once 3 = Two or three times 4 = Four or more times	1 = From the time I decided to attend this college through the first three weeks of my first term, I used face-to-face tutoring at least once
20.2e. Online tutoring	OLTUSE	1 = Never	0 = From the time I decided to attend this college through the first three weeks of my first term, I NEVER used online tutoring
		2 = Once 3 = Two or three times 4 = Four or more times	1 = From the time I decided to attend this college through the first three weeks of my first term, I used online tutoring at least once
20.2f. Writing, math, or other skill lab	SKLABUSE	1 = Never	0 = During the first three weeks of my first term, I NEVER used these services.
		2 = Once 3 = Two or three times 4 = Four or more times	1 = During the first three weeks of my first term, I used one or more of these services at least once.
20.2i. Student organizations	STORGUSE	1 = Never	0 = From the time I decided to attend this college through the first three weeks of my first term, I NEVER participated in a student organization
		2 = Once 3 = Two or three times 4 = Four or more times	1 = From the time I decided to attend this college through the first three weeks of my first term, I participated in a student organization at least once.

Item	Variable	Responses	
Item Text	Variable	Original Response Options	Recoded response interpretations
Item 21: Think about your experiences from the time of your decision to attend this college through the end of the first three weeks of your first semester/quarter. Within a class, or through another experience at this college:			
21a. I learned to improve my study skills (listening, note taking, highlighting readings, working with others, etc.)	LNDSTUDY	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks at this college, I learned to improve my study skills
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks at this college, I improved my study skills
21b. I learned to understand my academic strengths and weaknesses	LNDACAWK	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks at this college, I learned to understand my academic strengths and weaknesses
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks at this college, I learned to understand my academic strengths and weaknesses
21c. I learned skills and strategies to improve my test-taking ability	LNSKLLS	1 = Strongly disagree 2 = Disagree 3 = Neutral	0 = I am not sure or disagree/strongly disagree that, during my first three weeks at this college, I learned skills and strategies to improve my test-taking ability
		4 = Agree 5 = Strongly agree	1 = I agree or strongly agree that, during my first three weeks at this college, I learned skills and strategies to improve my test-taking ability

In addition to the *SENSE* Promising Practices items from the additional question set and the main survey, several other variables used in the models as covariates were also recoded. These variables were defined as dichotomous in the original data set; however, they are recoded here to 0/1 values instead of 1/2 values. The group defined by the zero value is the reference group in SAS PROC GLM. The table below shows how these variables were recoded.

Other *SENSE* variables recoded for use as covariates

Item Text	Variable	Responses	
		Original Response Options	Recoded response interpretations
2. Thinking about this semester/quarter, how would you describe your enrollment at this college?	ENRLMENT	1 = Less than full-time	1 = Less than full-time student
		2 = Full-time	0 = Full-time student
Enrolled in one or more developmental education classes ¹	DEVELOPM	1 = Developmental	1 = Developmental student
		2 = Non-Developmental	0 = Non-developmental student
First-Generation / Not First-Generation Students ¹	FIRSTGEN	1 = First-Generation	1 = First-generation student
		2 = Not First-Generation	0 = Not first-generation student

¹ These variables are derived from several combined survey items and therefore do not have an item number assigned to them.

***SENSE* variables combined to create analysis variables used in the models.**

Some of the constructs in the *SENSE* survey (e.g., attending orientation) were asked in multiple questions to get a more detailed picture of the students’ experiences. However, for the purpose of the analyses conducted for the National Report, we were interested in more general questions (e.g., did you attend any form of orientation), so we created new variables based on responses from multiple variables. The coding logic used to create the new variables is presented below.

```

if ONLORIEN = 1 or ONCORIEN = 1 or CSORIEN = 1 then ORIENTATION = 1 ; else
if NWORIEN = 1 or UNAORIEN = 1 then ORIENTATION = 0 ;
ONLORIEN: Item 11a
ONCORIEN: Item 11b
CSORIEN: Item 11c
NWORIEN: Item 11d
UNAORIEN: Item 11e

```

```
if NOTEST = 1 or NEEDNONE = 1 then PLACED_DevEd = 0 ; else
if NEEDREAD = 1 or NEEDWRIT = 1 or NEEDMATH = 1 then PLACED_DevEd = 1 ;
    NOTEST:      Item 13a
    NEEDNONE:    Item 13e
    NEEDREAD:    Item 13b
    NEEDWRIT:    Item 13c
    NEEDMATH:    Item 13d
```

The FFTUSE and OLTUSE variables (Items 20.2d and 20.2e, respectively) were recoded into dichotomous variables with the extension _USED. These recoded variables were then used to determine if a student participated in either face-to-face tutoring or online tutoring and a new dichotomous variable was created:

```
if FFTUSE_USED = 1 or OLTUSE_USED = 1 then TUTOR_EITHER_USED = 1 ; else
if FFTUSE_USED = 0 and OLTUSE_USED = 0 then TUTOR_EITHER_USED = 0 ;
```