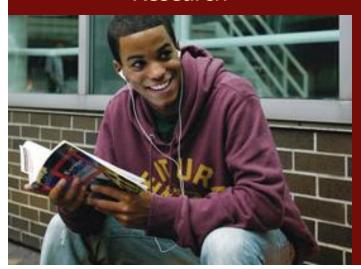


# Linking BCSSE and NSSE Data to Investigate First-Year Engagement and Outcomes

Indiana University
Center for Postsecondary
Research



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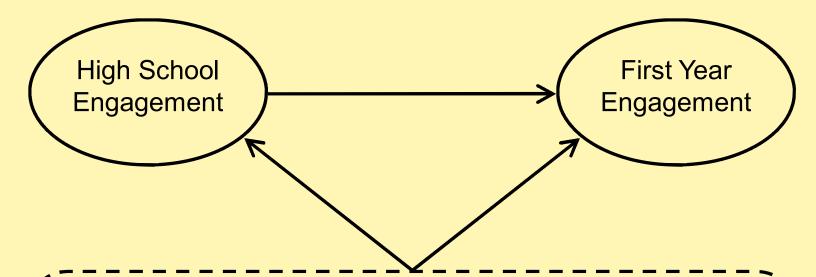
Measures entering first-year student:

- pre-college academic and co-curricular experiences
- expectations and attitudes for participating in educationally purposeful activities

BCSSE was primarily designed as a companion survey to the *National Survey of Student Engagement* (NSSE)



### **BCSSE-NSSE Concept**



Many factors that relate to academic engagement are present to varying degrees in high school and college, including:

- Institutional characteristics (high school and college)
- Social and family environment
- Socio-economic status
- Academic motivations and expectations
- Personality and dispositions



There are 3 sections in the BCSSE survey

- 1) High school experiences
- 2) Expectations and beliefs regarding their first-year of college
- 3) Background characteristics/demographics



#### **High School Experiences**

<u>Hi</u>	gh School Experiences
1	Please write in the year you graduated from high school (for example, "2007"):
2	From which type of high school did you graduate? (Select only one.)
	☐ Public ☐ Home school ☐ Private, religiously-affiliated ☐ Other (e.g., GED) ☐ Private, independent
3	What were most of your high school grades? (Select only one.)
	□ A       □ B       □ C         □ A-       □ B-       □ C- or lower         □ B+       □ C+       □ Grades not used
4	To date, in which of the following math classes did you earn a passing grade?
	Did not take Passed Did not pass
a. b. c.	



#### **High School Experiences**

9	During your <u>last year o</u> often did you do each o	and the second second		A PARTY OF THE PAR	t how
		Very often	Often	Some- times	
a.	Asked questions in class or contributed to class discussion	ns 🔲			
b.	Made a class presentation				
c.	Came to class without completing readings or assignments				
d.	Discussed grades or assignments with a teacher				
e.	Worked with other students on projects during class				



#### First-Year Expectations

14	During the <u>coming school year</u> , about how often do you expect to do each of the following?					
		Very often	Often	Some- times	Never	
a.	Ask questions in class or contribute to class discussions					
b.	Make a class presentation					
c.	Work on a paper or project that requires integrating ideas or information from various sources					
3		Ш		ш		
d.	Work with other students on projects during class					
e.	Work with classmates outside of class to prepare class assignments	П	П		П	



Hours per week

## **Survey Content**

Many of these questions are designed to be matched with NSSF data.

	13 During the <u>coming school year</u> , about how many <u>hours</u> do you think you will spend in a typical 7-day week doing each of the following?	NSSE  About how many hours do you spend in a typical
BCSSE	Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)	<ul> <li>7-day week doing each of the following?</li> <li>a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)</li> </ul>
During your <u>last year of high school</u> , about h many <u>hours</u> did you spend in a typical 7-day week doing each of the following?	1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week than 30	0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week
. Preparing for class (studying, doing homework, rehearsi 0 1-5 6-10 11-15 16-20 21-25 26-30	6. Working for pay on- or off-campus  0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week than 30	b. Working for pay <b>on campus</b> 0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week
Hours per week  . Working for pay (before or after school, weekends)	c. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)	c. Working for pay <b>off campus</b> 0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week
0 1-5 6-10 11-15 16-20 21-25 26-30 Hours per week	0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week than 30	d. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)
. Participating in co-curricular activities (arts, clubs, athlet	d. Relaxing or socializing (watching TV, partying, etc.)	0 1-5 6-10 11-15 16-20 21-25 26-30 More Hours per week than 3
	Hours per week than 30	e. Relaxing and socializing (watching TV, partying, etc.)  0 1-5 6-10 11-15 16-20 21-25 26-30 More  Hours per week than 3
l. Relaxing and socializing (watching TV, partying, etc.)		Hours per week

than 30

11-15 16-20 21-25 26-30

#### **NSSE**

7-da	y wee	k doing	g each	of the	followi	ng?	
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Hours	per we	ek					ulali 3
b. Work	ing for p	ay on c	ampus				
0	1-5	6-10	11-15	16-20	21-25	26-30	More
Hours	per we	ek					than 30
c. Work	ing for p	ay off c	ampus	<u> </u>			
0	1-5	6-10	11-15	16-20	21-25	26-30	More than 3
Hours	per we	ек					ulali 3
public	cations,	student	ricular a governm mural sp	ent, frat	ernity or		
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0	1-5	6-10	11-15	16-20	21-25	26-30	More
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e. Relax	ing and	socializi	ng (watc	hing TV,	partying	, etc.)	
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0	1-5	6-10	11-15	16-20	21-25	26-30	More
Hours	per we	ek					than 3



#### **Expected First Year Experiences**



14 During the <u>coming school year</u>, about how often do you expect to do each of the following?

a. Ask questions in class or contribute to class discussions
b. Make a class presentation

a. Asked questions in class or contributed to class discussions

b. Make a class presentation

a. Asked questions in class or contributed to class discussions

b. Made a class presentation



#### **BCSSE Scales**

High School Academic Engagement	Engagement in educationally relevant behaviors during the last year of high school.
Expected Academic Engagement	Expected engagement in educationally relevant behaviors during the first year of college.
Expected Academic Perseverance	Student certainty that they will persist in the face of academic adversity.
Expected Academic Difficulty	Expected academic difficulty during the first year of college.
Perceived Academic Preparation	Student perception of their academic preparation.
Importance of Campus Environment	Student-rated importance that the institution provides a challenging and supportive environment.



#### Paper or Web

- 1. Paper group administration
  - During Orientation activities, etc.
- 2. Web group administration
  - While students are in computer lab, etc.
- 3. Web email administration
  - Web link emailed to students



## **Survey Content & Admin.**

Three reports are provided:

- 1.BCSSE Report (Summer/Fall 2009)
- 2.BCSSE Advising (Summer/Fall 2009)
- 3.BCSSE/NSSE report (Summer 2010)

# A Campus Example

Using information contained in their reports, as well as the BCSSE and NSSE data file, here are a few things they found out about their the amount of hours per week their first-year students spent studying and preparing for class.



## From the BCSSE Report

They were surprised to find out that the majority of their incoming first-year class spent less than 11 hours per week preparing for class in high school.

8. During your <u>last year of high school</u>, about how many <u>hours</u> did you spend in a typical 7-day week doing each of the following?

Preparing for class (studying, doing
homework, rehearsing, etc.)

. <b></b>			_
0 hours per week	40	3%	7
1-5 hours per week	799	52%	84%
6-10 hours per week	446	29%	<u>.</u>
11-15 hours per week	154	10%	_
16-20 hours per week	54	4%	
21-25 hours per week	27	2%	
26-30 hours per week	6	0%	
More than 30 hours per week	9	1%	
Total	1,535	100%	



## From the BCSSE Report

However, they were pleased to find out that the majority of their incoming first-year class expected to spend at least 11 hours per week preparing for class.

#### 13. During the <u>coming school year</u>, about how many <u>hours</u> do you think you will spend in a typical 7-day week doing each of the following?

Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)

0 hours per week 1-5 hours per week 6-10 hours per week	4 52 276	0% 3% 18%
11-15 hours per week	446	30%
16-20 hours per week	379	25%
21-25 hours per week	221	15%
26-30 hours per week	77	5%
More than 30 hours per week	49	3%
Total	1,504	100%

79%

# NSSE Report

However, they were moderately pleased to find out that approximately 65% of their first-year class reported that they spent at least 11 hours per week preparing for class.

#### 9. About how many hours do you spend in a typical 7-day week doing each of the following?

Preparing for class (studying, reading,
writing, doing homework or lab work,
analyzing data, rehearsing, and other
academic activities)

0 hours per week	4	1%	
1-10 hours per week	153	34%	
11-20 hours per week	185	41%	65%
More than 20 hours per week	108	24%	03 /0
Total	450	100%	

However, this institution wanted to know more. According to many advisors on this campus, students did not spend as much time studying and preparing for class because they were overwhelmed and too busy.

So the IR office was tasked with running additional analysis to further investigate.



#### Hours spent preparing/studying for class

10 hours or less: 35%

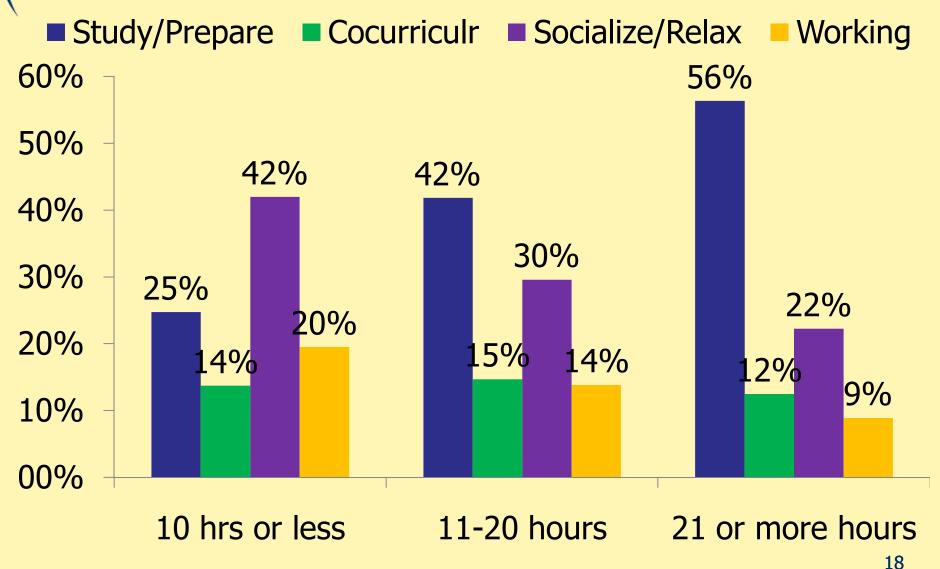
11-20 hours: 41%

21 or more hours: 24%

Are the students spending 10 hours less proportionately spending more time doing other activities (e.g., working, cocurricular, etc)?



## Percent Hours per Week in FY

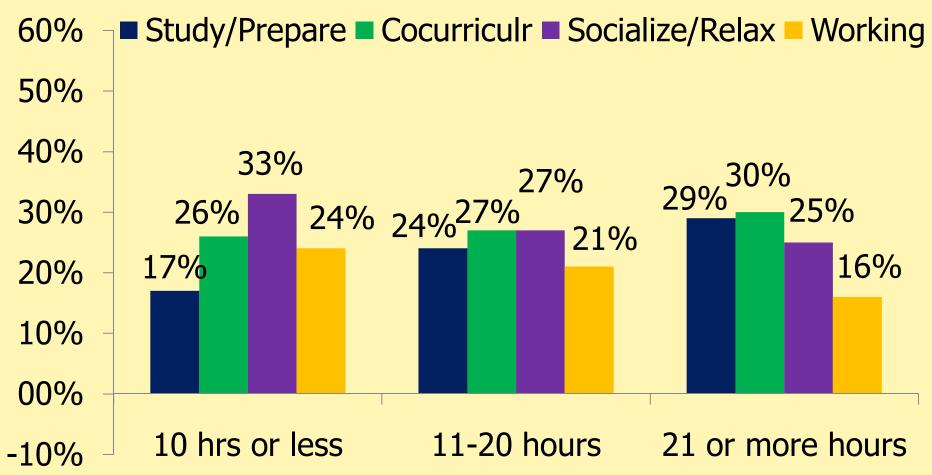


So, this institution now knows that many of the students not spending as much time studying are spending proportionately much more time socializing and relaxing.

There is a suggestion that this pattern of hours spent studying was no different for these students in high school. . .



## Percent Hours per Week in HS



So what is it about their first year experience that may help us to understand why they are spending less time studying? Are they truly feeling overwhelmed, or is something else going on?

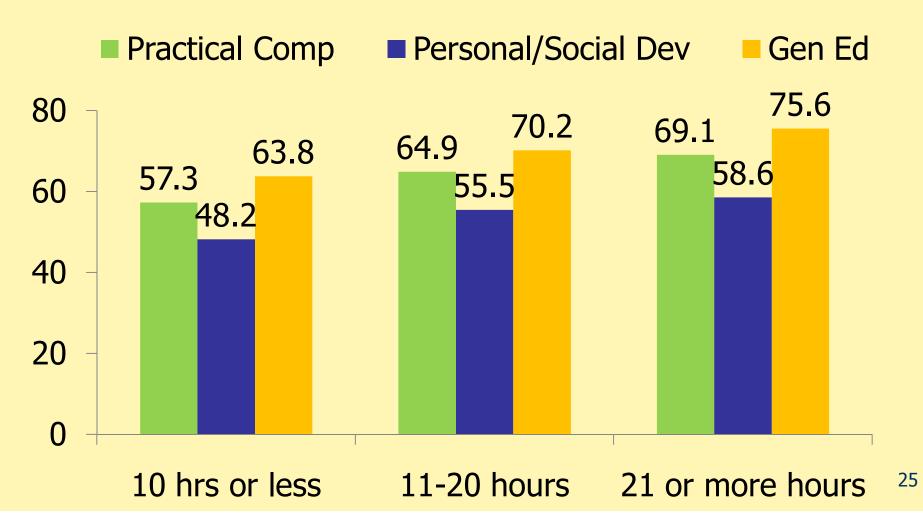


Hours/week studying	Higher Order Thinking	
10 hrs or less	61.1	
11-20 hours	67.6	
21 or more hours	76.8	

	Higher Order Challenging		
studying	Thinking	exams	
10 hrs or less	61.1	5.1	
11-20 hours	67.6	5.4	
21 or more hours	76.8	5.8	

Hours/week studying	Higher Order Thinking	Challenging exams	Instit emphasis on studying
10 hrs or less	61.1	5.1	3.0
11-20 hours	67.6	5.4	3.3
21 or more hours	/68	5.8	3.5

One consequence of this lower emphasis on higher order thinking and challenging exams maybe lower gains





Through orientation programs, emphasize with new FY students:

- The importance of hours devoted to studying
- The dangers of spending too much time socializing and relaxing
- The challenges they will face in the classroom
- The institutions emphasizes academc excellence and there are support services available for all student who need them



#### **Thank You**

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Copies of the paper and PowerPoint can be found at:

www.nsse.iub.edu

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