## Relationships among Background, Engagement, and Outcome Measures

<table>
<thead>
<tr>
<th>Measure</th>
<th>Retention</th>
<th>Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constant (Intercept)</td>
<td>-0.122(^a)</td>
<td>-0.470</td>
</tr>
<tr>
<td></td>
<td>0.201(^b)</td>
<td>0.330</td>
</tr>
<tr>
<td>SAT Composite / 100</td>
<td>0.030</td>
<td>0.119(^+)</td>
</tr>
<tr>
<td></td>
<td>0.016</td>
<td>0.025</td>
</tr>
<tr>
<td>High School GPA</td>
<td>0.049</td>
<td>0.398(^+)</td>
</tr>
<tr>
<td></td>
<td>0.051</td>
<td>0.080</td>
</tr>
<tr>
<td>Motivation Proxy (Application Date)</td>
<td>0.002</td>
<td>0.007(^+)</td>
</tr>
<tr>
<td></td>
<td>0.002</td>
<td>0.003</td>
</tr>
<tr>
<td>Course Challenge / 10</td>
<td>0.050(^+)</td>
<td>0.080(^+)</td>
</tr>
<tr>
<td></td>
<td>0.016</td>
<td>0.025</td>
</tr>
<tr>
<td>Higher-Order Thinking / 10</td>
<td>-0.016</td>
<td>-0.004</td>
</tr>
<tr>
<td></td>
<td>0.010</td>
<td>0.017</td>
</tr>
<tr>
<td>Active/Collaborative Learning / 10</td>
<td>0.018</td>
<td>0.025</td>
</tr>
<tr>
<td></td>
<td>0.017</td>
<td>0.027</td>
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<tr>
<td>Student-Faculty Interaction / 10</td>
<td>0.009</td>
<td>0.005</td>
</tr>
<tr>
<td></td>
<td>0.015</td>
<td>0.024</td>
</tr>
<tr>
<td>Diversity Experiences / 10</td>
<td>-0.001</td>
<td>-0.034(^+)</td>
</tr>
<tr>
<td></td>
<td>0.011</td>
<td>0.017</td>
</tr>
<tr>
<td>Support for Student Success / 10</td>
<td>0.002</td>
<td>-0.009</td>
</tr>
<tr>
<td></td>
<td>0.010</td>
<td>0.016</td>
</tr>
<tr>
<td>Interpersonal Environment / 10</td>
<td>0.013</td>
<td>0.049(^+)</td>
</tr>
<tr>
<td></td>
<td>0.012</td>
<td>0.020</td>
</tr>
<tr>
<td>(R^2) Background</td>
<td>0.022</td>
<td>0.251</td>
</tr>
<tr>
<td>(R^2) Engagement</td>
<td>0.057</td>
<td>0.056</td>
</tr>
<tr>
<td>(R^2) Total</td>
<td>0.079</td>
<td>0.307</td>
</tr>
</tbody>
</table>

\(^a\) Regression coefficient  
\(^b\) Standard error  
\(^+\) \(p \leq 0.05\)
## Descriptive Statistics for Background, Engagement, and Outcome Measures

<table>
<thead>
<tr>
<th>Measure</th>
<th>Mean</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT Composite / 100</td>
<td>10.20</td>
<td>1.46</td>
</tr>
<tr>
<td>High School GPA</td>
<td>3.34</td>
<td>0.44</td>
</tr>
<tr>
<td>Motivation Proxy (Application Date)</td>
<td>36.31</td>
<td>9.73</td>
</tr>
<tr>
<td>Course Challenge / 10</td>
<td>6.34</td>
<td>1.42</td>
</tr>
<tr>
<td>Higher-Order Thinking / 10</td>
<td>6.76</td>
<td>2.23</td>
</tr>
<tr>
<td>Active/Collaborative Learning / 10</td>
<td>4.63</td>
<td>1.70</td>
</tr>
<tr>
<td>Student-Faculty Interaction / 10</td>
<td>3.56</td>
<td>1.85</td>
</tr>
<tr>
<td>Diversity Experiences / 10</td>
<td>5.65</td>
<td>2.34</td>
</tr>
<tr>
<td>Support for Student Success / 10</td>
<td>5.31</td>
<td>2.37</td>
</tr>
<tr>
<td>Interpersonal Environment / 10</td>
<td>6.88</td>
<td>1.88</td>
</tr>
<tr>
<td>Retained Fall 2009</td>
<td>0.81</td>
<td>0.39</td>
</tr>
<tr>
<td>Cumulative IU GPA</td>
<td>3.07</td>
<td>0.65</td>
</tr>
</tbody>
</table>
NSSE Engagement Scales

Course Challenge (Alpha = 0.62)
- Worked harder than you thought you could to meet an instructor’s standards or expectations [1r]
- Come to class without completing readings or assignments (reverse scored) [1f]
- The extent to which your examinations during the current school year have challenged you to do your best work [5]
- Number of assigned textbooks, books, or book-length packs of course readings [3a]
- Hours per week spent preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities [9a]
- To what extent does your institution emphasize spending significant amounts of time studying and on academic work [10a]

Higher-Order Thinking (Alpha = 0.83)
- How much has your coursework emphasized analyzing the basic elements of an idea, experience, or theory ... [2b]
- How much has your coursework emphasized synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships [2c]
- How much has your coursework emphasized making judgments about the value of information, arguments, or methods ... [2d]
- How much has your coursework emphasized applying theories or concepts to practical problems or in new situations [2e]

Active and Collaborative Learning (Alpha = 0.68)
- Asked questions in class or contributed to class discussions [1a]
- Made a class presentation [1b]
- Participated in a community-based project (e.g., service learning) as part of a regular course [1k]
- Worked with other students on projects during class [1g]
- Worked with classmates outside of class to prepare class assignments [1h]
- Tutored or taught other students (paid or voluntary) [1j]
- Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.) [1t]

Student-Faculty Interaction (Alpha = 0.73)
- Discussed grades or assignments with an instructor [1n]
- Talked about career plans with a faculty member or advisor [1o]
- Discussed ideas from our readings or classes with faculty members outside of class [1p]
- Received prompt written or oral feedback from faculty on your academic performance [1q]
- Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.) [1s]
- Work(ed) on a research project with a faculty member outside of course or program requirements [7d] (scored 1=Done, 0=Not Done)
Diversity Experiences (Alpha = 0.70)
- Had serious conversations with students of a different race or ethnicity than your own [1u]
- Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values [1v]
- How often have you tried to better understand someone else’s views by imagining how an issue looks from his or her perspective [6e]
- To what extent does your institution emphasize encouraging contact among students from different economic, social, and racial or ethnic backgrounds [10c]

Support for Student Success (Alpha = 0.77)
- To what extent does your institution emphasize providing the support you need to help you succeed academically [10b]
- To what extent does your institution emphasize helping you cope with your nonacademic responsibilities (work, family, etc.) [10d]
- To what extent does your institution emphasize providing you the support you need to thrive socially [10e]

Interpersonal Environment (Alpha = 0.74)
- Quality of your relationships with other students [8a]
- Quality of your relationships with faculty members [8b]
- Quality of your relationships with administrative personnel and offices [8c]

Scales are drawn from:


1. In your experience at your institution during the current school year, about how often have you done each of the following? Mark your answers in the boxes. Examples: ☐ or ☐

<table>
<thead>
<tr>
<th>Very often</th>
<th>Often</th>
<th>Sometimes</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Asked questions in class or contributed to class discussions</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b. Made a class presentation</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c. Prepared two or more drafts of a paper or assignment before turning it in</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d. Worked on a paper or project that required integrating ideas or information from various sources</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>e. Included diverse perspectives (different races, religions, genders, political beliefs, etc.) in class discussions or writing assignments</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>f. Come to class without completing readings or assignments</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>g. Worked with other students on projects during class</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>h. Worked with classmates outside of class to prepare class assignments</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>i. Put together ideas or concepts from different courses when completing assignments or during class discussions</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>j. Tutored or taught other students (paid or voluntary)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>k. Participated in a community-based project (e.g., service learning) as part of a regular course</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>l. Used an electronic medium (listserv, chat group, Internet, instant messaging, etc.) to discuss or complete an assignment</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>m. Used e-mail to communicate with an instructor</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>n. Discussed grades or assignments with an instructor</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>o. Talked about career plans with a faculty member or advisor</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>p. Discussed ideas from your readings or classes with faculty members outside of class</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>q. Received prompt written or oral feedback from faculty on your academic performance</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>r. Worked harder than you thought you could to meet an instructor's standards or expectations</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>s. Worked with faculty members on activities other than coursework (committees, orientation, student life activities, etc.)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>t. Discussed ideas from your readings or classes with others outside of class (students, family members, co-workers, etc.)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>u. Had serious conversations with students of a different race or ethnicity than your own</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>v. Had serious conversations with students who are very different from you in terms of their religious beliefs, political opinions, or personal values</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

2. During the current school year, how much has your coursework emphasized the following mental activities?

<table>
<thead>
<tr>
<th>Very much</th>
<th>Quite a bit</th>
<th>Some</th>
<th>Very little</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Memorizing facts, ideas, or methods from your courses and readings so you can repeat them in pretty much the same form</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b. Analyzing the basic elements of an idea, experience, or theory, such as examining a particular case or situation in depth and considering its components</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c. Synthesizing and organizing ideas, information, or experiences into new, more complex interpretations and relationships</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d. Making judgments about the value of information, arguments, or methods, such as examining how others gathered and interpreted data and assessing the soundness of their conclusions</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>e. Applying theories or concepts to practical problems or in new situations</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
3. During the current school year, about how much reading and writing have you done?
   a. Number of assigned textbooks, books, or book-length packs of course readings
      None 1-4 5-10 11-20 More than 20
   b. Number of books read on your own (not assigned) for personal enjoyment or academic enrichment
      None 1-4 5-10 11-20 More than 20
   c. Number of written papers or reports of 20 pages or more
      None 1-4 5-10 11-20 More than 20
   d. Number of written papers or reports between 5 and 19 pages
      None 1-4 5-10 11-20 More than 20
   e. Number of written papers or reports of fewer than 5 pages
      None 1-4 5-10 11-20 More than 20

4. In a typical week, how many homework problem sets do you complete?
   None 1-2 3-4 5-6 More than 6
   a. Number of problem sets that take you more than an hour to complete
   b. Number of problem sets that take you less than an hour to complete

5. Mark the box that best represents the extent to which your examinations during the current school year have challenged you to do your best work.
   Very little Very much
   1 2 3 4 5 6 7

6. During the current school year, about how often have you done each of the following?
   Very often Often Sometimes Never
   a. Attended an art exhibit, play, dance, music, theater, or other performance
   b. Exercised or participated in physical fitness activities
   c. Participated in activities to enhance your spirituality (worship, meditation, prayer, etc.)
   d. Examined the strengths and weaknesses of your own views on a topic or issue
   e. Tried to better understand someone else's views by imagining how an issue looks from his or her perspective
   f. Learned something that changed the way you understand an issue or concept

7. Which of the following have you done or do you plan to do before you graduate from your institution?
   a. Practicum, internship, field experience, co-op experience, or clinical assignment
   b. Community service or volunteer work
   c. Participate in a learning community or some other formal program where groups of students take two or more classes together
   d. Work on a research project with a faculty member outside of course or program requirements
   e. Foreign language coursework
   f. Study abroad
   g. Independent study or self-designed major
   h. Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, etc.)

8. Mark the box that best represents the quality of your relationships with people at your institution.
   a. Relationships with other students
      Unfriendly, Unsupportive, Sense of alienation
      Friendly, Supportive, Sense of belonging
   b. Relationships with faculty members
      Unavailable, Unhelpful, Unsympathetic
      Available, Helpful, Sympathetic
   c. Relationships with administrative personnel and offices
      Unhelpful, Inconsiderate, Rigid
      Helpful, Considerate, Flexible
9 About how many hours do you spend in a typical 7-day week doing each of the following?

a. Preparing for class (studying, reading, writing, doing homework or lab work, analyzing data, rehearsing, and other academic activities)
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

b. Working for pay on campus
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

c. Working for pay off campus
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

d. Participating in co-curricular activities (organizations, campus publications, student government, fraternity or sorority, intercollegiate or intramural sports, etc.)
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

e. Relaxing and socializing (watching TV, partying, etc.)
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

f. Providing care for dependents living with you (parents, children, spouse, etc.)
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

g. Commuting to class (driving, walking, etc.)
   - 0 1-5 6-10 11-15 16-20 21-25 26-30 More than 30
   - Hours per week

10 To what extent does your institution emphasize each of the following?

a. Spending significant amounts of time studying and on academic work
   - Very much
   - Quite a bit
   - Some
   - Very little

b. Providing the support you need to help you succeed academically
   - Excellent
   - Good
   - Fair
   - Poor

c. Encouraging contact among students from different economic, social, and racial or ethnic backgrounds
   - Excellent
   - Good
   - Fair
   - Poor

d. Helping you cope with your non-academic responsibilities (work, family, etc.)
   - Excellent
   - Good
   - Fair
   - Poor

e. Providing the support you need to thrive socially
   - Excellent
   - Good
   - Fair
   - Poor

f. Attending campus events and activities (special speakers, cultural performances, athletic events, etc.)
   - Excellent
   - Good
   - Fair
   - Poor

g. Using computers in academic work
   - Excellent
   - Good
   - Fair
   - Poor

11 To what extent has your experience at this institution contributed to your knowledge, skills, and personal development in the following areas?

a. Acquiring a broad general education
   - Very much
   - Quite a bit
   - Some
   - Very little

b. Acquiring job or work-related knowledge and skills
   - Very much
   - Quite a bit
   - Some
   - Very little

c. Writing clearly and effectively
   - Very much
   - Quite a bit
   - Some
   - Very little

d. Speaking clearly and effectively
   - Very much
   - Quite a bit
   - Some
   - Very little

e. Thinking critically and analytically
   - Very much
   - Quite a bit
   - Some
   - Very little

f. Analyzing quantitative problems
   - Very much
   - Quite a bit
   - Some
   - Very little

g. Using computing and information technology
   - Very much
   - Quite a bit
   - Some
   - Very little

h. Working effectively with others
   - Very much
   - Quite a bit
   - Some
   - Very little

i. Voting in local, state, or national elections
   - Very much
   - Quite a bit
   - Some
   - Very little

j. Learning effectively on your own
   - Very much
   - Quite a bit
   - Some
   - Very little

k. Understanding yourself
   - Very much
   - Quite a bit
   - Some
   - Very little

l. Understanding people of other racial and ethnic backgrounds
   - Very much
   - Quite a bit
   - Some
   - Very little

m. Solving complex real-world problems
   - Very much
   - Quite a bit
   - Some
   - Very little

n. Developing a personal code of values and ethics
   - Very much
   - Quite a bit
   - Some
   - Very little

o. Contributing to the welfare of your community
   - Very much
   - Quite a bit
   - Some
   - Very little

p. Developing a deepened sense of spirituality
   - Very much
   - Quite a bit
   - Some
   - Very little

12 Overall, how would you evaluate the quality of academic advising you have received at your institution?

- Excellent
- Good
- Fair
- Poor

13 How would you evaluate your entire educational experience at this institution?

- Excellent
- Good
- Fair
- Poor

14 If you could start over again, would you go to the same institution you are now attending?

- Definitely yes
- Probably yes
- Probably no
- Definitely no
Write in your year of birth: 19

Your sex:

☐ Male
☐ Female

Are you an international student or foreign national?

☐ Yes
☐ No

What is your racial or ethnic identification? (Mark only one.)

☐ American Indian or other Native American
☐ Asian, Asian American, or Pacific Islander
☐ Black or African American
☐ White (non-Hispanic)
☐ Mexican or Mexican American
☐ Puerto Rican
☐ Other Hispanic or Latino
☐ Multiracial
☐ Other
☐ I prefer not to respond

What is your current classification in college?

☐ Freshman/first-year
☐ Sophomore
☐ Junior
☐ Senior
☐ Unclassified

Did you begin college at your current institution or elsewhere?

☐ Started here
☐ Started elsewhere

Since graduating from high school, which of the following types of schools have you attended other than the one you are attending now? (Mark all that apply.)

☐ Vocational or technical school
☐ Community or junior college
☐ 4-year college other than this one
☐ None
☐ Other

Thinking about this current academic term, how would you characterize your enrollment?

☐ Full-time
☐ Less than full-time

Are you a member of a social fraternity or sorority?

☐ Yes
☐ No

Are you a student-athlete on a team sponsored by your institution’s athletics department?

☐ Yes
☐ No (Go to question 25.)

On what team(s) are you an athlete (e.g., football, swimming)? Please answer below:

What have most of your grades been up to now at this institution?

☐ A
☐ A-
☐ B+
☐ C+
☐ B
☐ C
☐ B-
☐ C- or lower

Which of the following best describes where you are living now while attending college?

☐ Dormitory or other campus housing (not fraternity/sorority house)
☐ Residence (house, apartment, etc.) within walking distance of the institution
☐ Residence (house, apartment, etc.) within driving distance of the institution
☐ Fraternity or sorority house
☐ None of the above

What is the highest level of education that your parent(s) completed? (Mark one box per column.)

Father

☐ Did not finish high school
☐ Graduated from high school
☐ Attended college but did not complete degree
☐ Completed an associate’s degree (A.A., A.S., etc.)
☐ Completed a bachelor’s degree (B.A., B.S., etc.)
☐ Completed a master’s degree (M.A., M.S., etc.)
☐ Completed a doctoral degree (Ph.D., J.D., M.D., etc.)

Mother

☐ Did not finish high school
☐ Graduated from high school
☐ Attended college but did not complete degree
☐ Completed an associate’s degree (A.A., A.S., etc.)
☐ Completed a bachelor’s degree (B.A., B.S., etc.)
☐ Completed a master’s degree (M.A., M.S., etc.)
☐ Completed a doctoral degree (Ph.D., J.D., M.D., etc.)

Please print your major(s) or your expected major(s).

a. Primary major (Print only one):

b. If applicable, second major (not minor, concentration, etc.):

THANKS FOR SHARING YOUR RESPONSES!

After completing the survey, please put it in the enclosed postage-paid envelope and deposit it in any U.S. Postal Service mailbox. Questions or comments? Contact the National Survey of Student Engagement, Indiana University, 1900 East Tenth Street, Suite 419, Bloomington IN 47406-7512 or nsse@indiana.edu or www.nsse.iub.edu. Copyright © 2008 Indiana University.